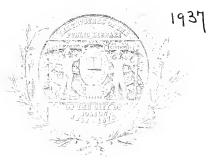


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Mass. Committee for Aeronautics



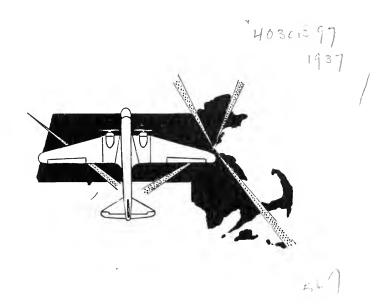


SECOND ANNUAL PROGRESS REPORT

OF THE

COMMITTEE FOR AERONAUTICS OF THE

COMMONWEALTH OF MASSACHUSETTS

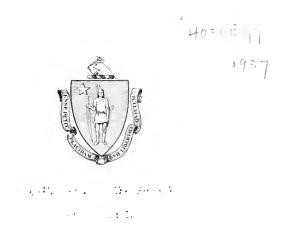


BOSTON, MASSACHUSETTS 1937



SECOND ANNUAL PROGRESS REPORT

OF THE
COMMITTEE FOR AERONAUTICS
OF THE
COMMONWEALTH OF MASSACHUSETTS



PUBLISHED BY
THE COMMITTEE FOR AERONAUTICS
ROOM 3A STATE HOUSE BOSTON MASS.
AS A REPORT ON PROJECT NO. 13688 CONDUCTED UNDER
THE AUSPICES OF THE WORKS PROGRESS ADMINISTRATION
1937

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MEMBERS

THE ADJUTANT GENERAL.

WORKS

THE COMMISSIONER OF PUBLIC

THE CHAIRMAN, COMMISSION ON ADMINISTRATION AND FINANCE

TECHNICAL ADVISER ON AERONAUTICS ALL COMMUNICATIONS SHOULD BE ADDRESSED TO COMMITTEE FOR AERONAUTICS

COMMITTEE FOR AERONAUTICS

OF

THE COMMONWEALTH OF MASSACHUSETTS

STATE HOUSE, BOSTON

LETTER OF TRANSMITTAL.

His Excellency
Hon. Charles F. Hurley,
Governor of
The Commonwealth of Massachusetts,
State House,
Boston, Massachusetts.

Dear Sir:

In compliance with the Provisions of the Executive Act of the Governor as of September 7th, 1935, establishing The Committee For Aeronautics of the Commonwealth of Massachusetts, I have the honor to transmit herewith the Second Annual Progress Report of the Committee, covering the Calendar Year 1937.

Very truly yours,

CHARLES H. COLE,

Brig.Gen., Mass.N.G.Ret.,

The Adjutant General,

Chairman, Committee For Aeronautics.

February 7th, 1938.

to 4/28/38

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In reply refer to Subject No.



MEMBERS

THE ADJUTANT GENERAL.

THE COMMISSIONER OF PUPLIC WORKS

THE CHAIRMAN, COMMISSION ON ADMINISTRATION AND FINANCE

TECHNICAL ADVISER ON AERONAUTICS

ALL COMMUNICATIONS SHOULD BE ADDRESSED TO COMMITTEE FOR AERONAUTICS

COMMITTEE FOR AERONAUTICS

OF

THE COMMONWEALTH OF MASSACHUSETTS

STATE HOUSE, BOSTON

BRIG. GEN. CHARLES H. COLE, THE ADJUTANT GENERAL, CHAIRMAN.

HON. WILLIAM F. CALLAHAN, THE COMMISSIONER OF PUBLIC WORKS.

HON. CHARLES P. HOWARD, THE CHAIRMAN, COMMISSION ON ADMINISTRATION AND FINANCE.

COL. STEDMAN SHUMWAY HANKS, TECHNICAL ADVISER.



In reply refer to Subject No.



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THE COMMISSIONER OF PUBLIC WORKS

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TECHNICAL ADVISER ON AERONAUTICS

ALL COMMUNICATIONS SHOULD BE ADDRESSED TO COMMITTEE FOR AERONAUTICS

COMMITTEE FOR AERONAUTICS

OF

THE COMMONWEALTH OF MASSACHUSETTS

STATE HOUSE, BOSTON

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INTRODUCTION

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The Committee For Aeronautics, appointed by the Governor of The Commonwealth on September 7th, 1935, for the purpose of directing the use of Federal Work Funds for Aeronautic Projects, presented in January 1937 its first report on the progress of Aviation in Massachusetts during 1936. The work of compiling further information that will be of assistance to those charged with the development of Aviation in Massachusetts has again been carried on under the supervision of the Committee.

In formulating a program for 1937 the Committee decided to depart from its previous procedure, because it felt that Aeronautical progress in the Commonwealth made it not only desirable, but necessary, to take stock of present facilities in order to determine their potential value with a view to future development.

According to figures furnished by aircraft manufacturers the airplane of the near future will necessitate airports with runways much longer than those now available on the majority of the existing airports. A demand for increased radio and lighting facilities has become urgent. Weather data will require more extended dissemination. All of these factors point to the need of planned development. The Committee For Aeronautics, sensing this need, decided that the 1937 program should furnish all interested parties with such information in reference to existing facilities as the time and money at its disposal would permit.

The program as set forth is as follows:-

- 1. Study of existing airports and facilities.
- Study of the Metropolitan Boston Area with a view toward establishing one or more sites which could be developed as a secondary airport to the Boston Municipal Airport.
- A compilation of meteorological data as an aid to potential airport development.
- 4. A compilation of data pertaining to New England radio broadcasting stations as an aid to aerial navigation.
- A compilation of data with reference to obstructions in the line of approach to the Boston Municipal Airport.
- Recommendations to meet anticipated future development.

Lack of funds prevented the completion of the foregoing program as it was found that the location of a site suitable for the construction of a secondary airport within or near the Boston Metropolitan Area is an item that requires further study. So many considerations enter into this problem that the Committee feels more time is necessary to properly evaluate the information which has been secured.

During the period in which the personnel under the direction of the Committee was engaged in compiling the data used as the basis of this Report, the New England representative of The Bureau of Air Commerce requested the Committee to obtain such information as would be of assistance in revising its publication "Description of Airports and Landing Fields in the United States". The Committee agreed to assist the Bureau of Air Commerce and furnished a transcript of the information compiled by its personnel.

Recently the Federal Government announced the vital need of a comprehensive survey with reference to existing airports and airport facilities, as a preliminary step in a program for the development of airports and ground facilities, so that they will be able to safely accommodate the type of aircraft which will soon be in use on our Commercial Airways.

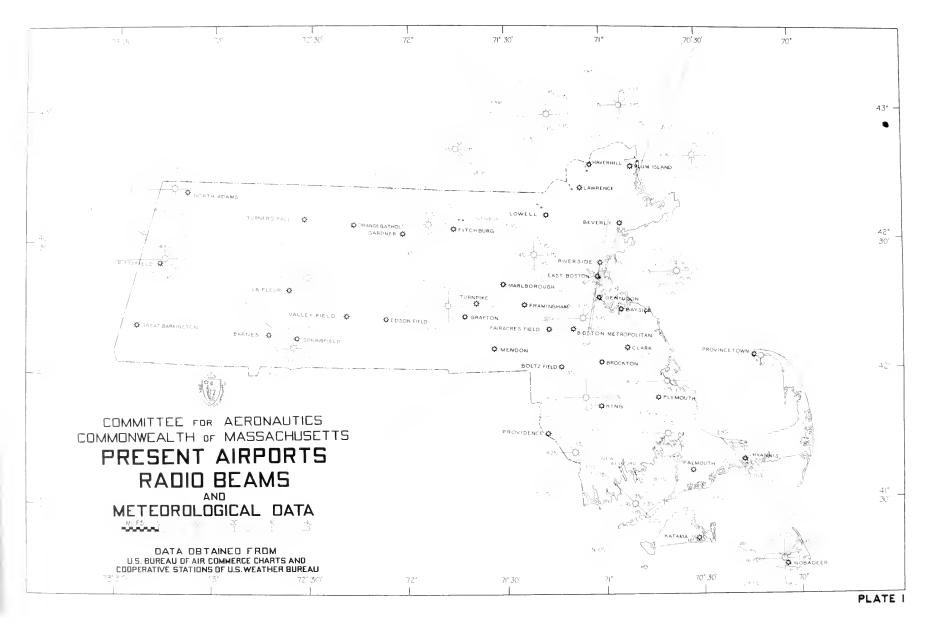
The Committee For Aeronautics is keeping pace with the plans of the Federal Government with reference to airport planning, and believes that the information contained in this Report will be of some assistance to those who may have a legitimate use for it.

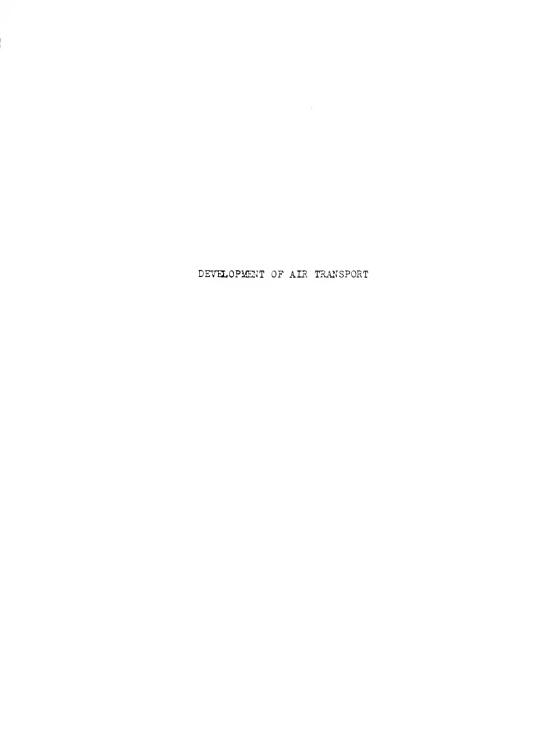
The Committee wishes to gratefully acknowledge the assistance and cooperation it has received from:-

Major Clarence M. Hodge, State Supervisor of Aircraft.
Capt. Albert L. Edson, Superintendent of the Boston Airport.
Mr. G. H. Noyes, U. S. Weather Bureau, Boston.
U. S. Bureau of Air Commerce.
Rear Admiral R. R. Waeche, Commandant, U. S. Coast Guard.
American Railway Express Company.
U. S. Post Office Department, —
and various Airport Operators throughout the Commonwealth.

Acknowledgment is also made to Fairchild Aviation, Inc., and Rankin Text, Inc., for their assistance with reference to the articles on the Radio Compass and Meteorology respectively.

The Committee For Aeronautics of The Commonwealth of Massachusetts.







DEVELOPMENT OF AIR TRANSPORT

A brief review of the development of air transportation seems to be desirable before proceeding with a discussion of the desirability of plans and programs for Aviation facilities within The Commonwealth.

For convenience in presentation, and also for the purpose of comparison, the review has been treated under two headings:-

- 1. Growth of Air Transport in the United States.
- 2. Growth of Air Transport in Massachusetts.

Growth of Air Transport in the United States.

Mileage in Operation

In 1918 the only air transport mileage operating in the United States was 218 miles operated by the United States Post Office Department in mail routes.

In 1926 the total airway mileage of the United States operated air transport routes, including air mail, passenger, express and freight air transports, was 8,404 miles, of which 8,252 miles were within the continental limits of the United States and 152 miles outside of said limits. As of July 1st, 1936, this total had risen to 60,400 miles, of which 28,216 miles were within and 32,184 miles without the aforesaid continental limits. The domestic mileage increased in this single decade over 240 per cent and the non-domestic 21,000 per cent.

Plate No. 2 gives the year by year development of the total mileage of airways from 1927 to July 1st, 1936.

Passengers Carried

In 1926 the domestic airlines carried a total of 5,782 passengers, and in 1936 a total of 1,020,931. The increase here was 17,555 per cent against only 240 per cent increase in line mileage; in 1926 one passenger to each seven-tenths of a mile, and in 1936 a total of 36 passengers per route mile.

Plate No. 3 gives the year-by-year tabulation from 1926 to 1936 of the total passengers carried by air transport lines operating from the United States, both foreign and domestic.

Plate No. 4 shows graphically the variations in costs per passenger mile on air transport lines operating within the United States from 1927 to 1936 inclusive.

Air Mail

In 1918 the airway routes in operation with United States Mail had a total mileage of 218, whereas on July 1st, 1936, the total mileage was 27,460. The increase was 12,500 per cent. In 1918 a total of approximately 18,000 pounds of mail was carried on air routes, and in 1936 the weight of this type of mail had increased 18,324,012 pounds. The increase in this case was 101,700 per cent.

Plate No. 5 shows the variation in the weight of air mail carried by the air transport lines in the United States from 1927 to 1936.

Air Express and Freight

In 1927 the air express and freight carried by domestic scheduled air transport was 45,859 pounds, and in 1936 the amount had reached a total of 8,350,010 pounds, an increase of 18,100 per cent.

Plate No. 6 shows graphically the changes in the weight of air express and freight carried by air from 1927 to 1936.

Growth of Air Transport in Massachusetts.

Mileage in Operation

In 1927 the total mileage of scheduled airways within or passing through Massachusetts was 44, which represented that part of the Boston-New York Airway passing over Massachusetts. In 1936 the total had increased to 257, an increase of 484 per cent. This total does not include the mileage of seasonly operated airlines within the Commonwealth.

Plate No. 7 gives the year-by-year development of the total mileage of airways within the Commonwealth from 1927 to 1936.

Passengers Carried

In 1928 the airlines in operation within or passing through Massachusetts carried a total of 106 passengers. In 1936 this total had increased to 75,985, an increase of 71,600 per cent.

Plate No. 8 gives the year-by-year tabulation from 1928 to 1936 of the total passengers carried by air transport lines operating within or passing through Massachusetts.

Air Mail

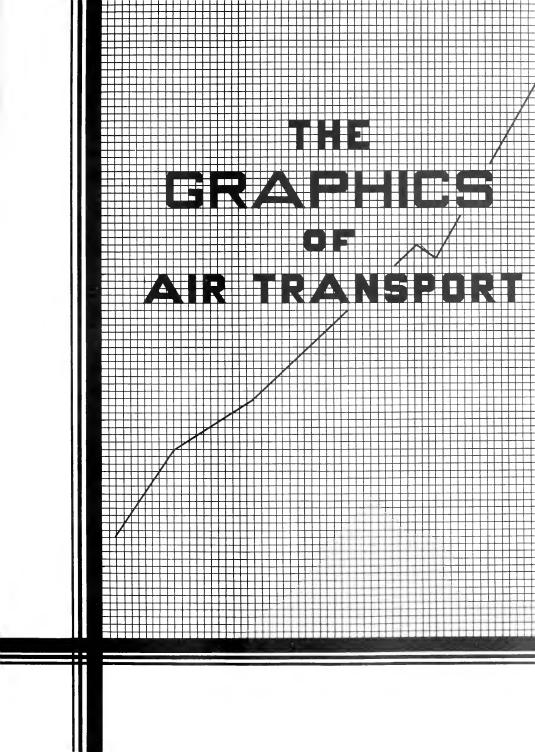
In 1926 the scheduled airway routes operating with air mail within or passing through Massachusetts had a total mileage of 44, whereas in 1936 the total was 257, an increase of 584 per cent. In 1926 a total of 4,889 pounds of air mail was carried on air routes operated within or passing through Massachusetts, and in 1936 a total of 240,768 pounds, an increase of 4,800 per cent.

Plate No. 9 shows the variations in the weight of air mail carried by the air transport lines operating within or passing through Massachusetts.

Air Express

In 1928 the air express carried by scheduled airlines operating within or passing through Massachusetts was 1950 pounds, and in 1936 the amount had reached a total of 229,166 pounds, an increase of 11,650 per cent.

Plate No. 10 shows graphically the changes in the weight of air express carried by airlines operating within or passing through Massachusetts from 1928 to 1936.





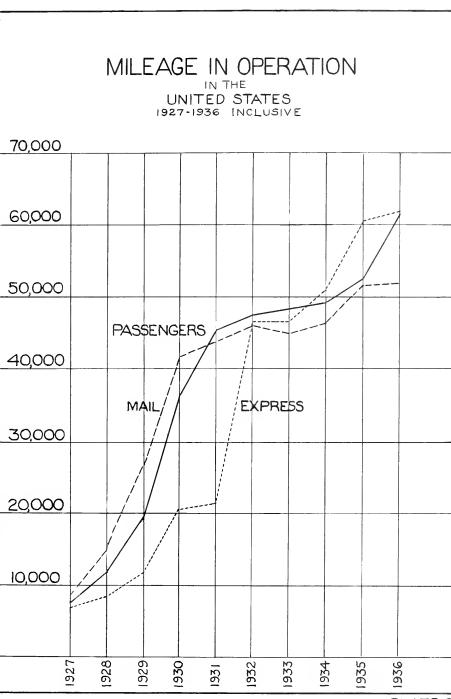


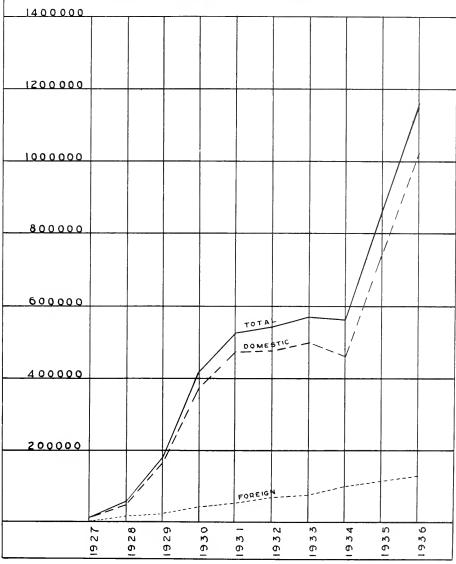
PLATE 2

PASSENGERS CARRIED

N

SCHEDULED AIRLINE OPERATIONS
1927—1936

"DOMESTIC" DENOTES WITHIN THE CONTINENTAL LIMITS OF THE U.S.A.
"FOREIGN" DENOTES AMERICAN FLIGHTS TO FOREIGN COUNTRIES.



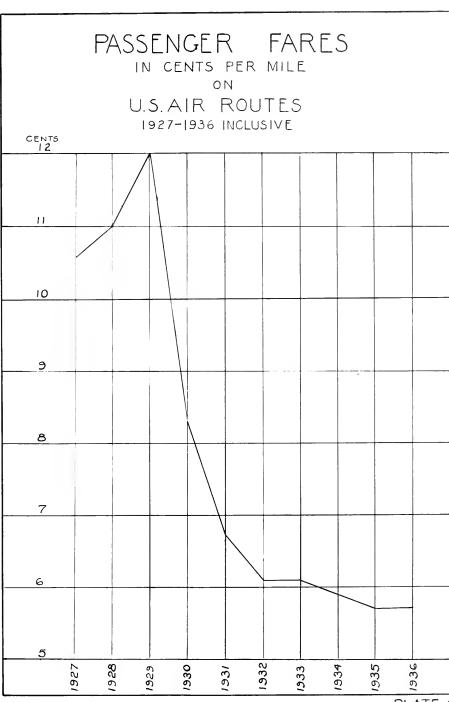
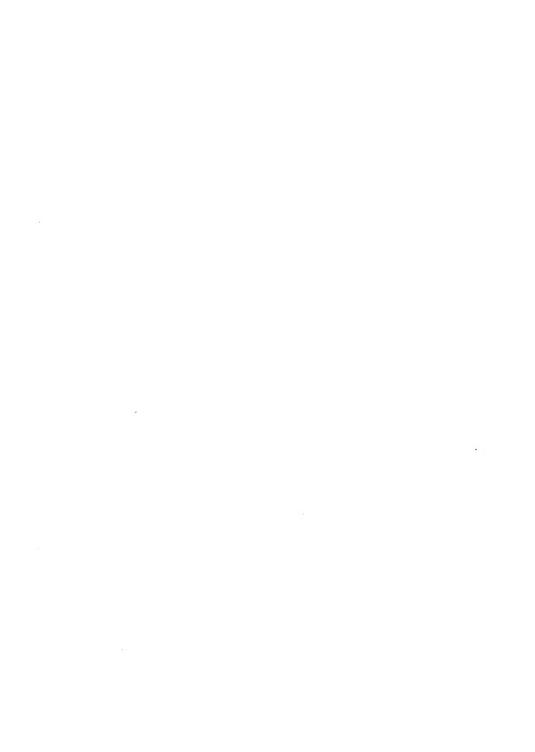
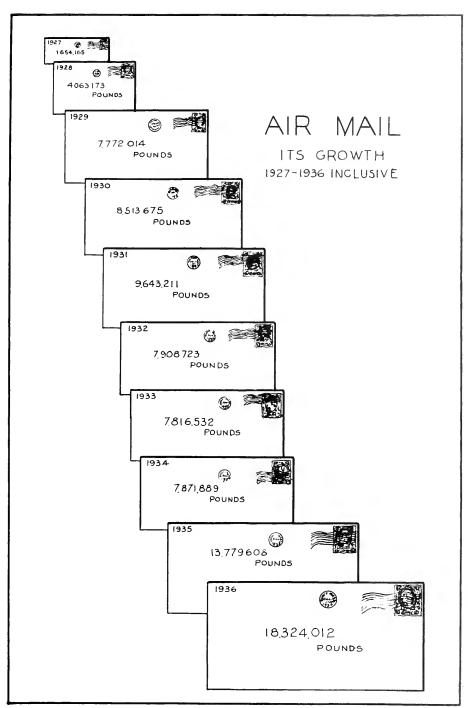
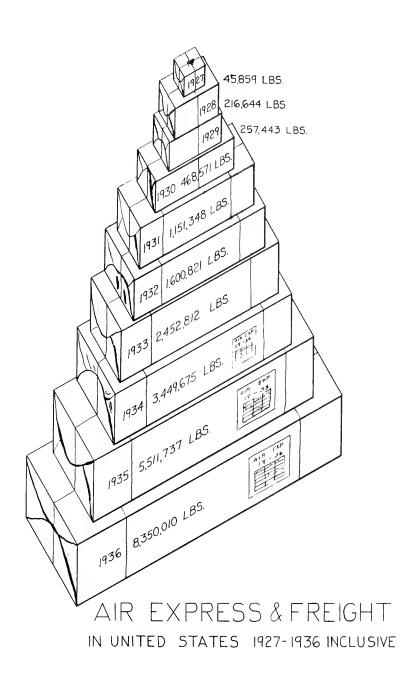


PLATE 4

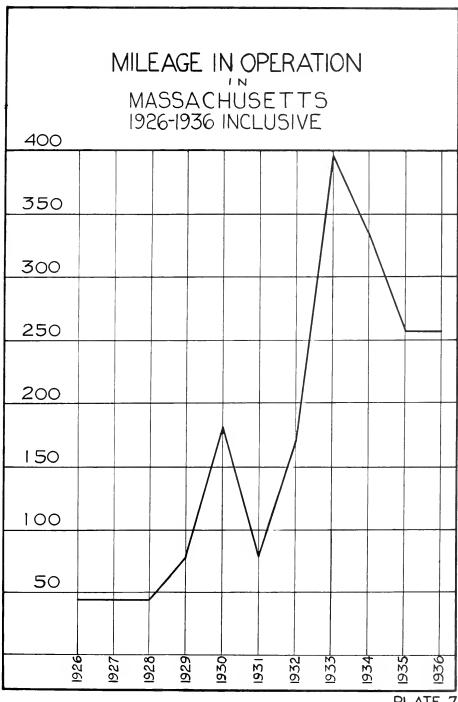








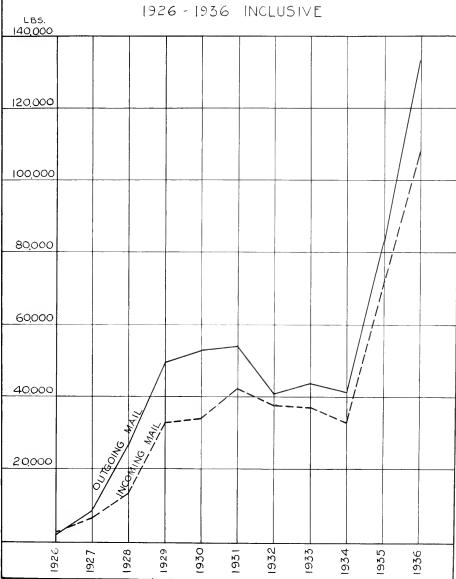




PASSENGERS CARRIED IN SCHEDULED AIRLINE OPERATIONS 1928-1936 MASSACHUSETTS 80000 70,000 60,000 50,000 40,000 30,000 20,000 10,000

INCOMING AND OUTGOING AIR MAIL

OF MASSACHUSETTS
HANDLED THROUGH BOSTON AIRPORT





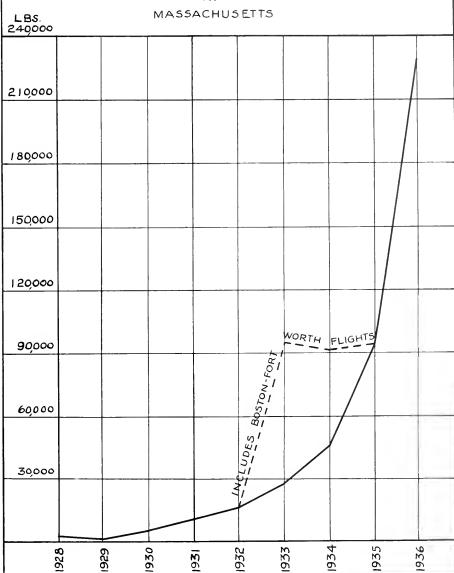
AIR EXPRESS CARRIED

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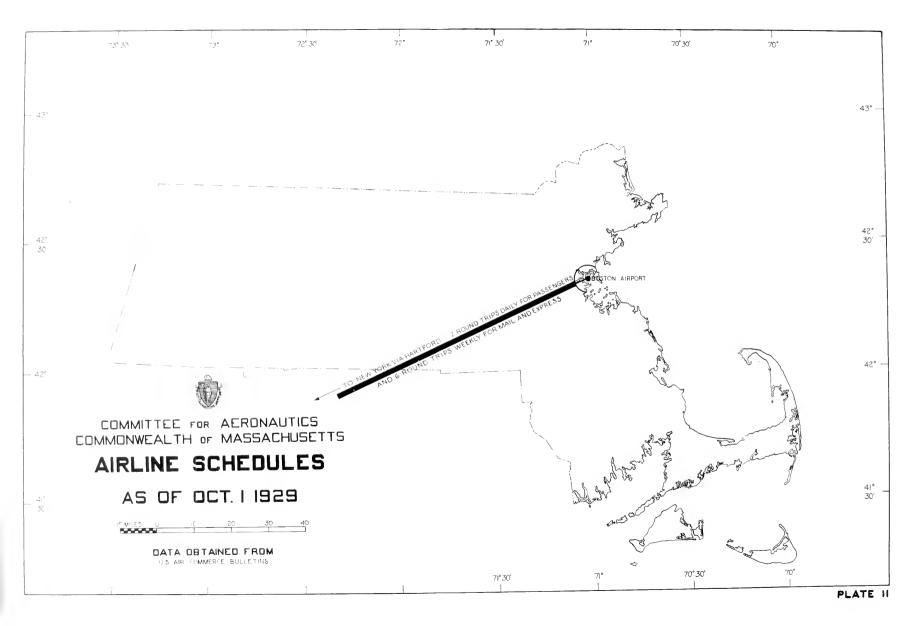
SCHEDULED AIRLINE OPERATIONS

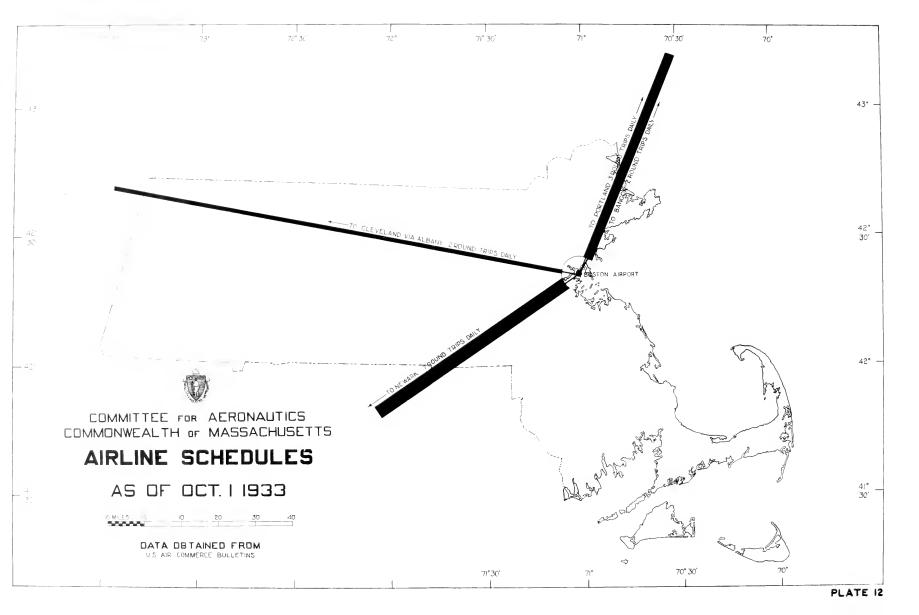
1928 - 1936

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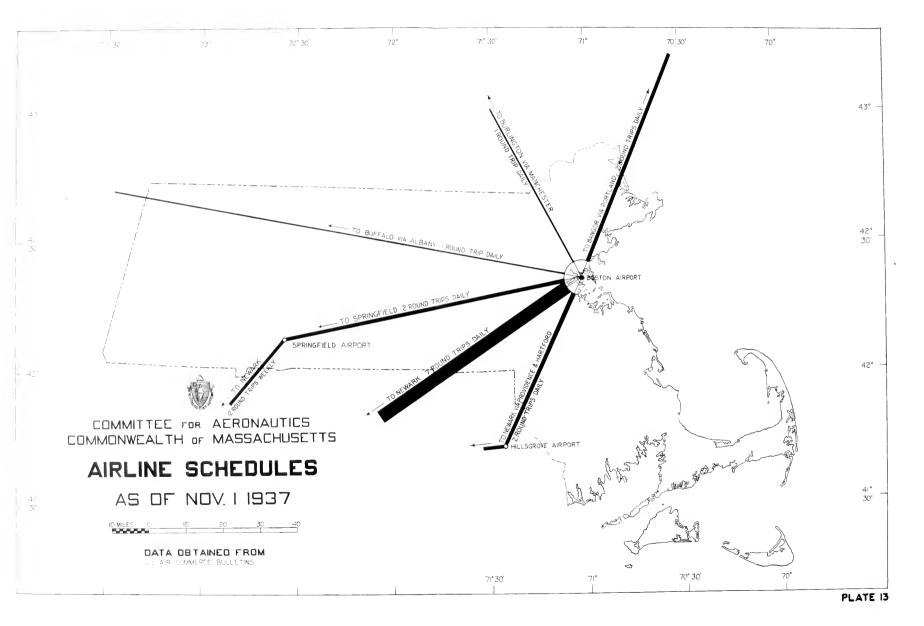




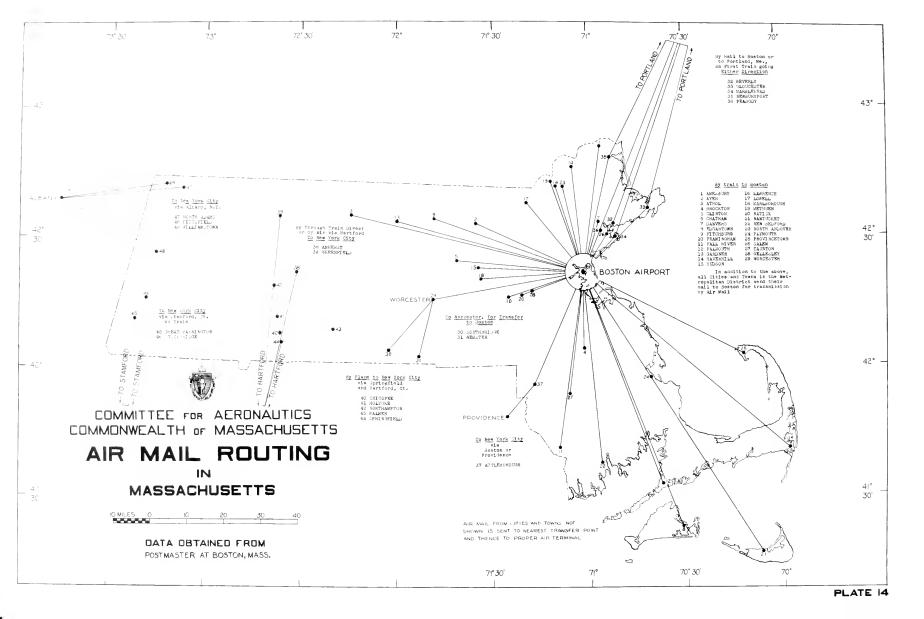




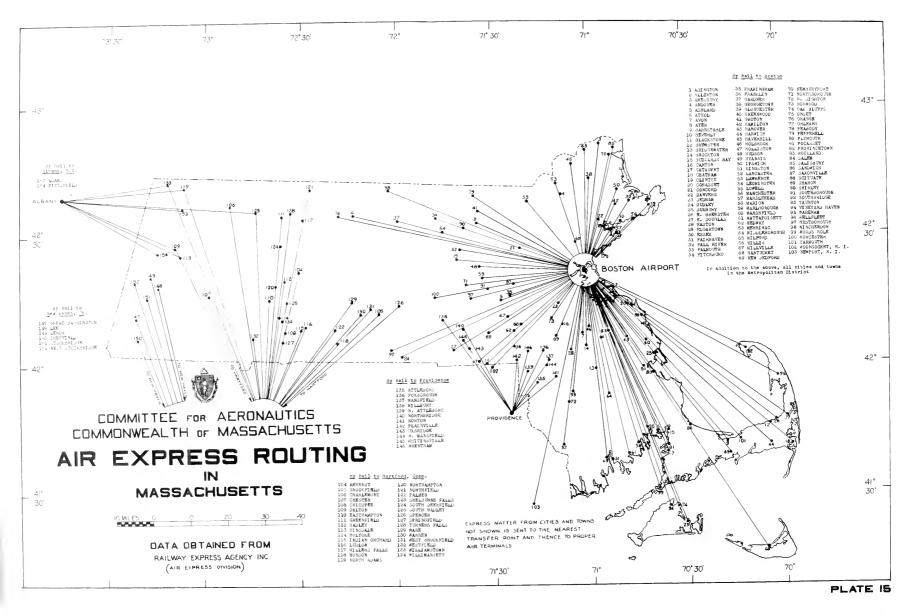




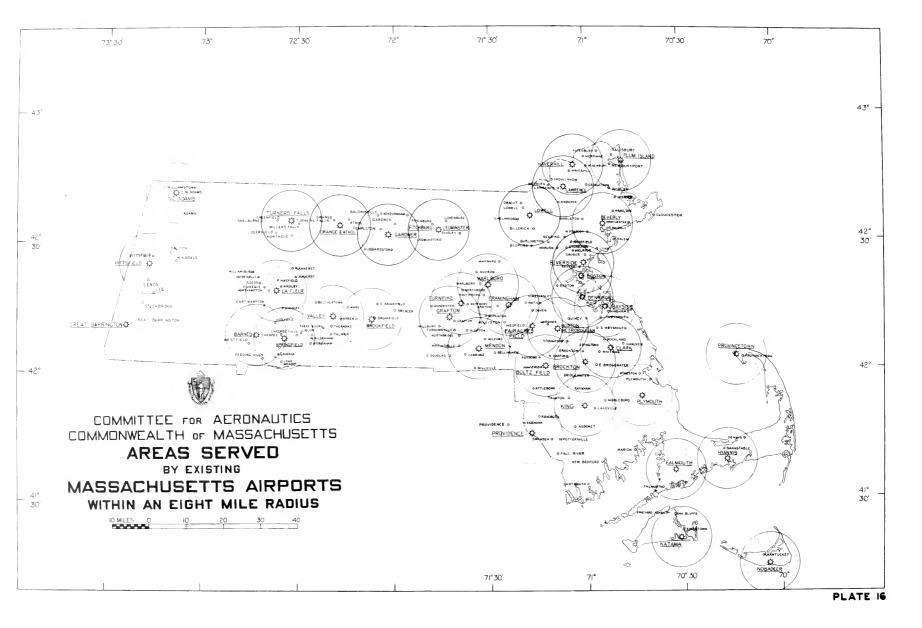


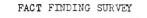


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PART I

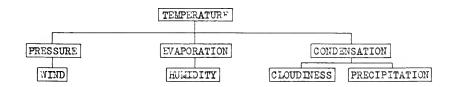
METEOROLOGICAL STUDY

A knowledge of Meteorology, the science of the Atmosphere, is essential not only to the airman, but also to those in charge of airport development. A practical knowledge of meteorological elements, their varied conditions and changes, together with the cause of such changes, are likewise necessary in order that they may avoid unfavorable weather and take advantage of that which is favorable.

With reference to the above, it should be borne in mind that the more generally observed meteorological elements are temperature, pressure, wind, evaporation, humidity, condensation, cloudiness, precipitation and visibility. All these elements are affected by heat from the sum.

The relation of one of these elements to another is more or less complicated. In addition to being affected by heat from the sun they are likewise affected, to a lesser degree, by topography and the rotation of the earth.

The following graph will serve to illustrate the ordinary relation of the elements:-



Sunshine or the lack of it affects temperature, temperature affects pressure, pressure affects wind, temperature affects evaporation, evaporation affects humidity, temperature affects condensation, condensation affects cloudiness and precipitation, temperature, cloudiness and precipitation affect visibility. (Smoke and dust particles also affect visibility).

It might be asserted that temperature is the predominant element and that it is the primary cause of all meteorological conditions.

As has been previously stated the study of Meteorology is a

science within itself and as the text of this Report in general deals with the present status of airports and landing fields and the possibility and necessity of emlarging or improving such airports and landing fields, we shall confine this section of the Report to such meteorological elements as have a direct hearing upon the successful operation of airports and landing fields, and their possible extension or improvement.

It will be noted in a following section of this Report (Part IV) that a list of meteorological data is submitted for each individual airport. This list contains data pertaining to such meteorological elements as wind, precipitation and temperature, and it is with these elements and their effects upon the successful operation and possible enlargement of the airports and landing fields that we are concerned.

WIND

It is a known fact that pressure depends primarily on temperature, and all winds are the result of inequalities in pressure; winds are divided into many classes and therefore we shall discuss only those having an immediate bearing on the operation, layout or expansion of airports and landing fields, vir: - Local Land and Sea Winds, and Anabatic and Matabatic Winds, more commonly called Mountain and Valley Winds.

Local Land and Sea Winds

The general circulation, as here outlined very briefly, is subject to interruptions of various causes. In the first place the northward and southward movement of the high and low pressure belts with the seasons, results in material changes of wind directions in some areas.

The corresponding changes or interruptions in the general circulation, however, are due to unequal heating of land and water surfaces, and consequent inequalities in pressure over oceans and continents. Winds have a decided tendency to blow out from continents in Winter and toward the interior of continents in Summer.

Not only do we find seasonal changes in land and sea winds, but there are daily changes also. Along the seashore there is a tendency for wind to blow shoreward during the day and seaward during the night.

Anabatic and Katabatic Winds

When the lower layers of air are cocled at night, the cocl air, which is heavier than the air above, drains into the low places; in the daytime when lower layers are overheated there is a tendency for this warm air to blow up the slope, being displaced at the ground by the cocler, heavier air from above. This interchange of air is ranifest in mountain and valley breezes, blowing up the valley or slope

during the day when the air begins to expand along the entire slope, or mountain side, due to heating of the surface layer of air by sunshine. These winds are called ANABATIC winds. In narrow mountain valleys these winds are very noticeable in the daytime, during the Summer, and this principle is a factor in wind direction in all mountainous districts.

Under certain atmospheric conditions a breeze may blow down the slope. This is caused by the surface layer of air being cooled more rapidly than the upper layers, and this cool heavy air is gravitating to the lowest point in the valley. This downward type of wind is a KATABATIC wind.

In fact, any wind which is caused by a heavy colder air gravitating off high ground may properly be termed a Katabatic wind.

Extremely low temperature over an elevated plateau may result in the density of the air at that particular point being increased considerably, due to contraction. Should this occur, a mass of heavy cold air may gravitate downward toward the lower levels of the valley, or coast line. This type of wind usually attains a high velocity. Well defined Katabatic winds may occur in any mountainous district during cold weather under certain atmospheric conditions.

These winds may have no relation to the general atmospheric pressure. Their existence is due principally to the extreme heating of the surface layers of air in the low lands, or to the extreme cooling of the surface layers of air over high plateaus or elevated ground. Attention should be drawn at this time to the general effect of topography on winds in general, whereby the friction of wind on rough high surfaces tends to slow down the wind movement, so that in the lower levels, winds over the land do not reach the velocity of those experienced over the sea.

Mountain ranges not only reduce wind velocity, but may also affect the direction.

From the foregoing it can be readily observed that wind, with reference to its direction and velocity, is at best an unstable element, and for that reason is an important factor in the successful landing and taking off of aircraft, for whenever possible it is to the advantage of the operation of aircraft to land and take off into the wind. In the laying out of airports and landing fields a correct wind rose is obviously of paramount importance, in order that the rumways may be constructed so that their direction will conform to the direction of the prevailing winds.

There have been wind roses assembled in the past for various airport and landing field locations in Massachusetts which are incorrect, mainly because the data was collected from within the city limits and not at the airport site, for the reason that there were no airports at the time the observations were taken.

With these facts in mind The Committee For Aeronautics,

through its Research Project, has collected wind data from the majority of the cooperative weather stations in Massachusetts, and has assembled a wind rose for each of the airport and potential airport areas within the Commonwealth, as shown on Plates 17, 18, 19 and 20.

It is to be remembered that in many instances the statement made heretofore with reference to the location from which the wind rose data was collected, still holds true, for as will be seen from a study of the contents of Part IV it was impossible to collect wind data at most of the individual sites, and consequently much of the data was obtained from the nearest available and reliable source, which was, in some instances, as much as 15 miles distant. It is obvious, therefore, that in many cases, although the data collected will give a fair picture of meteorological conditions in those areas in which it was obtained, it cannot and should not be interpreted as the actual conditions prevalent at the airport site.

From what has been stated it can be readily seen that if a true picture is to be taken, to such a degree as is possible with unstable elements, there is the necessity for further meteorological study, and some provision should be made whereby regular daily observations can be made at all airports, and these observations recorded for the purpose of assembling accurate wind roses and compiling other meteorological data pertinent to the safe operation of aircraft.

TEMPERATURE AND PRECIPITATION

These elements are also of major importance as their effect upon construction problems of any nature are only too well known. The flyer is interested in temperature from the standpoint of his own safety and comfort, and as it affects the working of aircraft engines. In the future, when more freight is carried by airplane, there will be the problem of protecting perishable commodities from damage by extremes of temperature.

Temperature is also of importance in its relation to other elements, for in the temperature of the air is to be found the cause of wind, rain, snow, thunderstorms, etc.

Precipitation can be divided into three forms, namely rain, snow and hail, and their importance with reference to airport and landing field construction or improvement can be classified in that order. The necessity for information relative to these elements in regard to construction is too obvious to require explanation. From the standpoint of the flyer the presence of either of the aforementioned elements is of vital importance, as each has a distinct bearing upon the safe operation of aircraft.

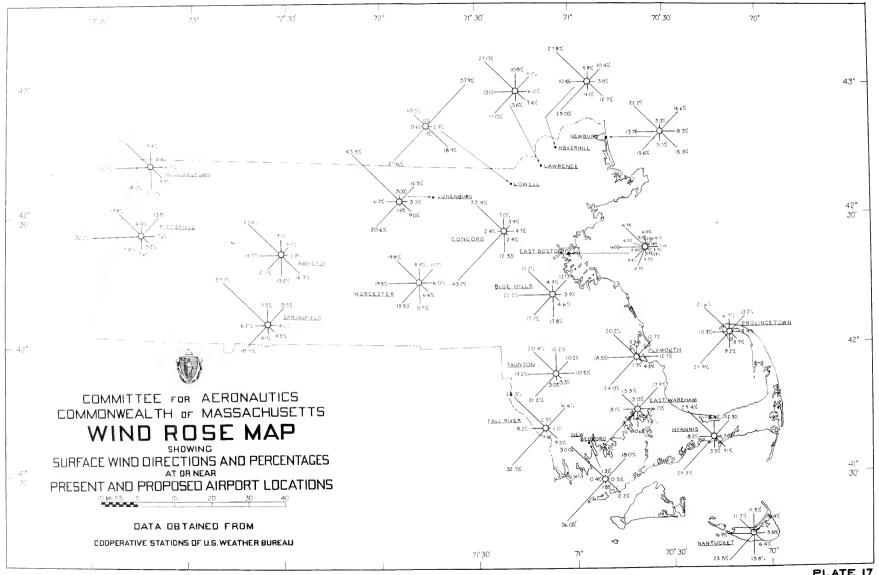
With reference to the wind rose data shown with each individual airport study in Part IV of this Report, it should be remembered that for the Summer wind rose the records for the months of June, July, August and September, were used, and for the Winter wind rose, the records for December, January, February and March.

Plate Nos. 19 and 20 show the wind rose data for the Boston Municipal Airport, including the amual wind rose and a monthly summary taken over a period of six years.

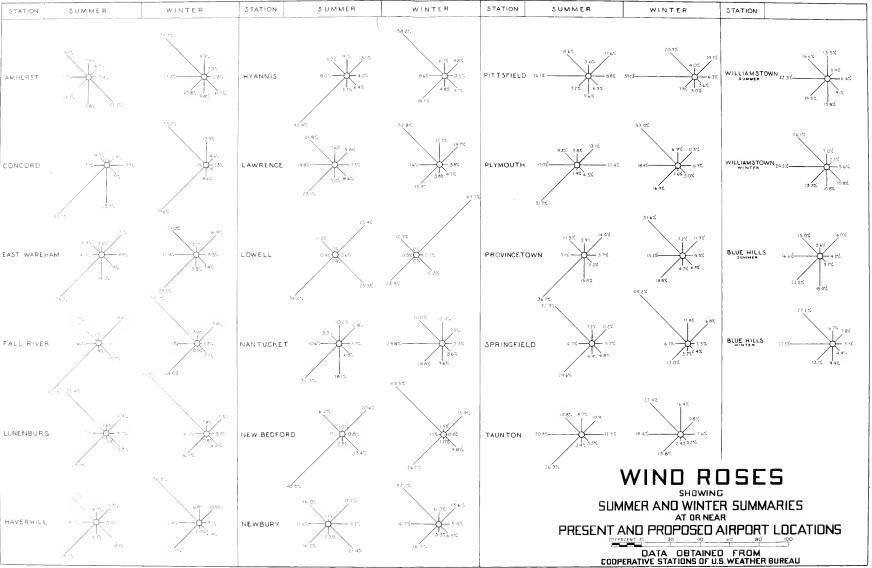
Periods Over Which Observations Were Taken

WIND ROSE DATA

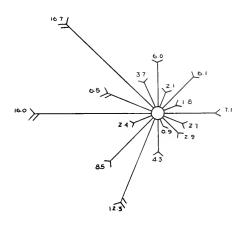
				
Station	Years	From	To	Days in Record
Amherst	13	1924	1936	474 8
Blue Hill	11	1926	1936	3957
Concord	11	1926	1936	Monthly Summary
East Boston	6 <u>1</u>	1930	1936	2373
East Wareham	10	1927	1936	3494
Fall River	11	1926	1936	4010
Haverhill	13	1923	1935 2 missing)	3303
Hyannis	5	1932	1937	1797
Lawrence	11	1926	1936	3956
Lowell	10	1927 (incom	1936 mp le te)	937
Lunenburg (Fitchburg)	11	1926	1936	3622
Nantucket	10	1927	1936	3650
New Bedford	10	1927	1936	365 3
Newbury	10	1927	1936	3591
Pittsfield	10	1927	1936	3552
Plymouth	11	1926	1936	3752
Provincetown	10	1927	1936	3651
Springfield	13	1924	1936	4745
Taunton	10	1927	1936	3645
Williamstown	10	1927	1936	3 646







19.1		



ANNUAL WIND ROSE

BOSTON MUNICIPAL AIRPORT

EAST BOSTON MASS

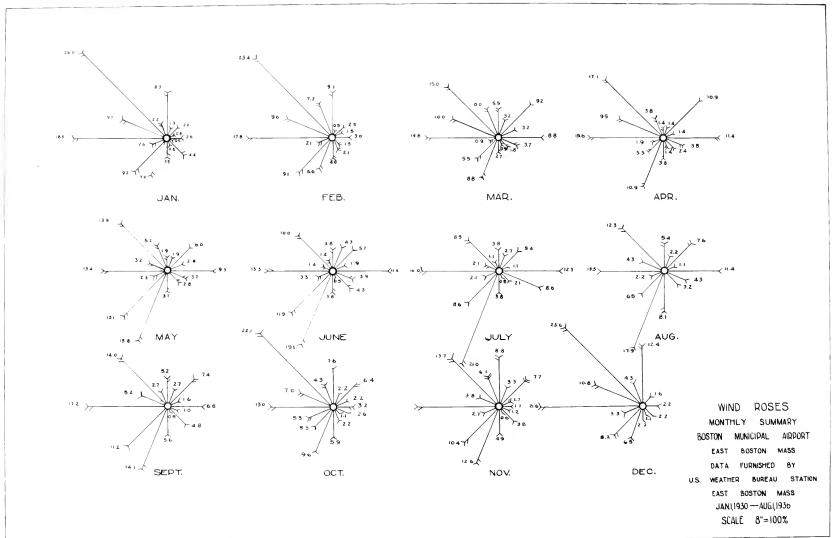
DATA FURNISHED BY

U.S. WEATHER BUREAU STATION

EAST BOSTON MASS

JAN1,1930 — AUG.1,1936

SCALE 10"=100%



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PART II

NEW ENGLAND RADIO BROADCASTING STATIONS

Data Compiled For Use With Radio Compass Homing Device

The adoption of the radio compass homing device as an aid to aerial navigation has created the need of a chart or map which can be used as a pilots' guide to the Radio Broadcasting Stations in New Eng-land.

The information contained herein has been compiled by The Committee For Aeronautics through the assistance of its Research Project with the intention of presenting to the pilots of both scheduled and it-inerant aircraft operating in New England a method whereby they may orient themselves through the medium of the Radio Compass.

The network of Standard Radio Broadcasting Stations, operating on the 550 - 1500 KC entertainment band, has proved to be one of the essential sources by which flyers may assure themselves of their location, and thereby assist them in reaching their destination, provided the planes are equipped with the proper radio instruments for the reception of these Broadcasts.

Plate No. 21 shows a map giving the location and frequencies of all Broadcasting Stations in the New England States which may be used by the flyer for the safe operation of his craft. It also shows the location of the principal cities and towns.

Following Plate 21 will be found a list of all Broadcasting Stations in the New England States, together with such information as may be of use in assisting the pilot to reach his destination safely.

Standard Broadcasting Stations transmitting entertainment, etc., in the standard entertainment band 550 - 1500 KC, can be of no aid to air navigation unless the plane is properly equipped with radio for the reception of these Broadcasts. The ordinary radio-receiver, such as is used for home reception, will not meet with the desired result.

As a result of extensive experience gained in public use, plus a vast amount of research, an instrument has been put on the market which is a combination of a navigation instrument and a high-grade radio-receiver, and known as the Radio-Compass. It is a high quality conventional radio-receiver of high sensitivity and selectivity operating in the radio-weather band of 200 - 410 KC; in the standard entertainment band of 550 - 1500 KC; and in the high frequency aviation communication band of 2200 - 6700 KC.

It has the following uses:-

- Conventional receiver for oral out-put for the reception of weather broadcasts.
- 2. Flying on conventional radio-range courses.
- Reception of standard radio broadcast signals for entertainment.
- 4. High frequency aviation communication.
- 5. Radio-Compass (by the flick of a switch and the adjustment of a visual indicator control) for navigational purposes, providing visual out-put. The Radio Compass is usually confined for use only with the 200 410 KC radio-weather band and the 550 1500 standard entertainment band. Navigation by the use of a Radio-Compass possesses distinct advantages over the conventional method of aerial navigation by use of the radio-range beacons, in that its use is not confined to the narrow path of the beacon.

When flying with the Radio-Compass the signals from the beacon stations may be utilized without regard to "on course" signals, and the pilots may fly directly to or away from such stations. It is therefore necessary for the pilot to perform the additional flying usually necessary to get "on course", and if during a flight the "on course" signals are lost and the pilot is unable to orient himself rapidly, he need not resort to dead reckoning. The ability to approach the radiorange beacon station from any angle, irrespective of the "on course" beam, greatly widens the scope of its usefulness, and in the event it is necessary to fly over the established air-ways, the rapidity with which it is possible to locate the "on course" signal zone is of extreme value.

Identification of the sector by oral means, plus bearings toward the station as determined from the magnetic-compass and the visual indicator of the radio-compass, will rapidly determine the location of the "on course" signal. This may then be followed in a minimum amount of time.

Signals emanating from the broadcasting stations may be used, and thus the pilot may fly to points that he would otherwise be unable to, due to lack of other navigational aids.

The Radio-Compass performs the essential operations of successful air navigation by permitting the pilot to fly a course toward the selected radio station. By merely following the movements of the visual indicator he flies directly to the point selected. Flights may be completed over territory or water where the standard radio aids to aerial navigation are non-existent, or under conditions whereby the use

of conventional navigation would render the flight extremely hazardous. This instrument makes it possible to fly a more accurate course, which results in a reduction of travel time and operating expense.

Also the elimination of the ever-present orientation problem is solved by this instrument, resulting in more efficient airplane operation in good as well as bad weather, by allowing the pilot to devote his entire time and attention to the operation of his plane.

Although this article is not meant to be a technical treatise on aerial navigation, the Committee feels that a brief description of the operation of the Radio-Compass will more readily explain to those who may not be familiar with its use, the necessity and usefulness of the accompanying data. The remainder of this Part II, therefore, is being given over to a brief description of the operation of a standard radio-compass, now in use on many of our modern aircraft.

As shown in Fig. RN 1, the Radio-Compass consists of six units. (1) A loop antume, stationary or manually rotatable; (2) A radio receiver-compass-dynameter; (3) A visual course indicator meter; (4) A telephone head-set; (5) A remote control; and (6) A mast antenna.

Power for operation is derived from a 6 or 12 volt storage battery.

Satisfactory bearings may be secured at from 300 to 800 miles, while under favorable conditions a range of 1500 miles has given satisfactory results.

Reception frequencies range from 150 to 17,000 KC, separated into the regular radio frequency bands. Or they may be divided into bands more particularly suitable to some special purpose.

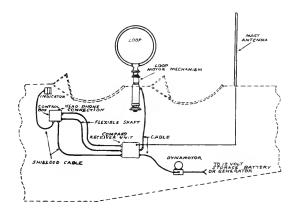


Fig. RN1. Installation of Radio Compass in Open Cockpit Airplane

The flight indications of the Radio-Compass are always radial to the radio transmitting station. An "on course" indication of the instrument shows that the aircraft is pointed along a radius either to or from the station.

Fig. RN 2 shows the radial lines of indication. An infinite number of these exist. Unless reference to other instruments or indicia

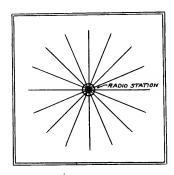


Fig. RN2. Radial Lines from Radio Station

is made there is no way of determining which radius is being used at the moment. The course indicator infallibly shows whether the airplane is pointed towards or away from the station.

A "homing" approach, as shown in Fig. RN 3, can be made to the radio transmitting station without any other navigational means, and

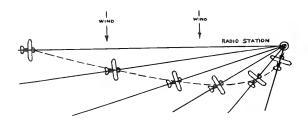


Fig. RN3. "Homing" Flight with Radio Compass

without knowing wind velocity or direction. Such an approach may be flown over a curved track due to cross winds. (Experienced pilots

claim that by flying a curved track the airplane will arrive at its destination as quickly as if it were crabbed into the wind and flown on a straight course). However, in this particular instance the airplane will reach its destination without any navigation on the part of the pilot except in keeping the course indicator needle centered.

Fig. RN 3 shows a "homing" flight path during a cross wind, when no other navigational reference is used. The airplane always points towards the station along a radius.

By occasional check on the magnetic compass or directional gyro, drift can be observed during a "homing" flight, and the flight straightened. For example, suppose the correct compass course to a point is 90°. After flying by the course indicator, for a short time, Fig. RN 4, the pilot notices when he reached the general vicinity of "A"

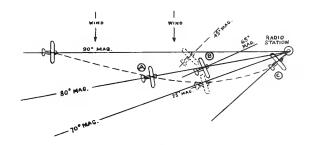


Fig. RN 4. Drift Correction with Radio Compass

that his magnetic heading has changed to the left since the beginning of the flight, and is now 80°, although the course indicator has been kept central. This indicates a drift to the right. He may then correct his magnetic heading farther to the left to compensate for the cross wind. His course indicator needle no longer remains in the central, or zero position. After flying this MAGNETIC HEADING for a while to "B", he may recheck by centering the course indicator. If the resulting magnetic heading on this temporary course is more than it was when he was at "A" (before correcting for the drift) he has over-corrected (position shown by dotted airplane on 45° heading). If it is the same he is flying a straight track to the station along the 80° magnetic course with a heading of 65°, as shown in the accompanying illustration. If it is less, he has under-corrected (position shown by dotted airplane on 75° heading). He can assume another correction based upon the facts determined at his first check point "B", and continue to fly. When the general vicinity of the station is reached (say 20 or 30 miles at "C") he can return to a true "homing" course and neglect the magnetic compass entirely, except to observe his heading for further orientation after reaching the radio transmitting station.

If he should make a mistake and pass the radio station without returning to a true "homing" course, the course indicator would immediately apprise him of the fact. The needle would swing across the face and show an opposite deflection without change of heading by the pilot. Therefore, any experimentation desired by the pilot with regard to drift correction can have no serious consequences.

When flying entirely blind without a Radio-Compass, and relying on ordinary magnetic compass and directional gyro, any of the various courses indicated in Fig. RN 5, may be imposed on the airplane by a cross wind. However, if the Radio-Compass is used with the above instruments an allowance can be readily made for drift, and correct navigation is simplified.

Drift determination is easy when using a radio station as a point of departure.

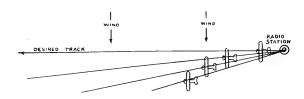


Fig. RN5. Courses that Could be Flown when Flying Away from Radio Station

The pilot should fly over the radio station, Fig. RN 6, from position "A", and note the time when the course indicator shows the station position by fluctuation of the needle. The magnetic compass is then used to hold the heading as planned along the original track. After a few minutes, position "B" is reached. The course indicator is then centered by rotating the loop or swinging the ship. The drift angle can be read directly from the loop graduations, or by subtracting the new heading from the originally planned heading. This can be used to regain the original track, if desired, by adding or subtracting twice the drift angle 0, and flying for a period of time equal to the first interval, then taking the original heading, plus or minus 0, as the case may be.

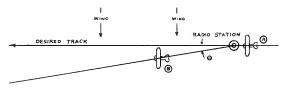


Fig. RN6. Drift Correction with Radio Compass when Flying Away from Radio Station

Drift determination from distant radio stations ahead must be obtained by graphical methods, Fig. RN 7.

The pilot files a magnetic heading, as laid out for the desired track, and keeps a careful distance observation from the elapsed time and the air speed. At "A" (say 50 miles from the start) he takes a radio bearing on the radio station by means of the course indicator. He then must lay off a circle from the starting point with a radius equal to his computed air distance, and also lay out the radio bearing from the station. These will intersect. His approximate drift angle 0, and his approximate position, are thus determined. Head wind or tail wind components will affect the result slightly, as shown by the broken lines in an exaggerated degree.

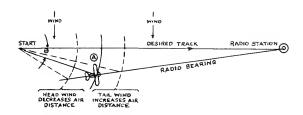


Fig. RN7. Determining Drift by Radio Compass from Radio Station Ahead

Cross checks, Fig. RN 8, may be taken at any time to determine position.

Position "A" will give a good fix from the radio bearings on any two of the three stations shown. Position "B" would not give a fix from station 1 and 2 (except a line of position) due to 180° bearing. The three stations act as a check on the accuracy of all the bearings, as observed.

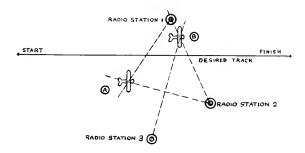
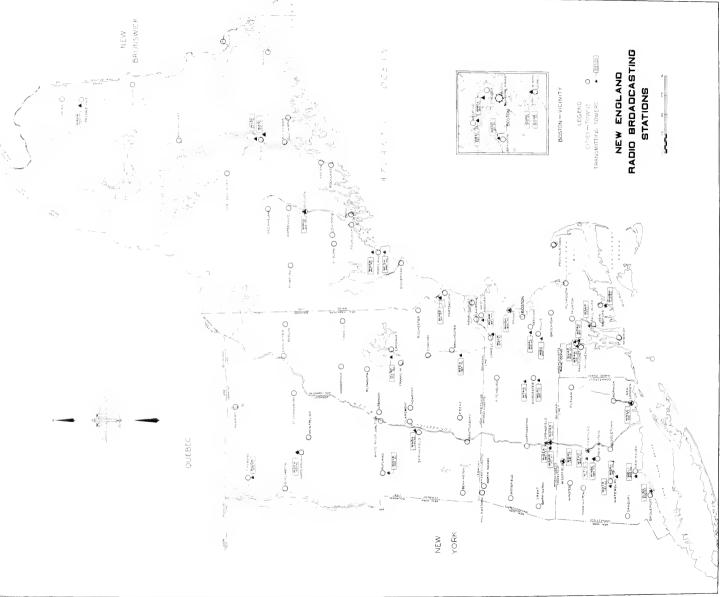


Fig. RN8. Fix with Radio Compass by Bearings on Two or More Radio Stations



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Identification Letters	Frequency (kilocycles)	Dial Reading	Location of Transmitter	Latitude and Longitude	Fower (Watts)	Hours of Operation	Height of Antenna	Distance to Boston Airport	True Bearing Transmitter to Boston Airport	Magnetic Bearing Transmitter to Boston Airport	Distance to Nearest Airport	True Bearing Transmitter to Nearest Airport	Magnetic Bearing Transmitter to Nearest Airport	Mearest Station On Same Frequency
WTAG	580		Holden 5 miles north of Worcester	42°20'00" N 71°49'00" W	1000	Daily 7.30 AM to Midnite Sunday 9.00 AM to Midnite	350 ft (3) Lighted	41.5 miles	87°	102°	N.Grafton 9.5 miles	145°	159°	None in N.E.
WEEI	590		Medford 5.5 miles north- west of Boston	42 [°] 24'29" N 71 [°] 05' 14 " W	5000 Day 1000 Night	Daily: 7.00 AM to 1.00 AM Sunday: 9.00 AM to 12.00 Mid.	350 ft (2) Lighted	4.0 miles	132°	147°	Boston 4.0 miles	132°	147°	None in N.E.
WLAW	680		West Andover 3 miles south- west of Lawrence	42 [°] 40'38" N 71 [°] 13'12" W	1000	6.00 AM to Local Sunset	300 ft (1) Lighted	22.0 miles	154°	169 ⁰	Lawrence 6.0 miles	51°	o 66	None in N.E.
WHDH	830		Saugus, 7 miles north- east of Boston	42°26'15" N 70°59'40" W	1000	Until sunset in Denver,Col. 7.00 AM to 6.30 PM Summer: 7.00 AM to 10.30 PM	165 ft (2) Lighted	5.0 miles	200°	215	Revere 1.0 mile	231°	246°	None in N.E.
WORL	920		Needham 2 miles west of Town	42°17'25" N 71°15'56" W	500	7.30 AM to Local Sunset	306 ft (1) Lighted	14.0 miles	o 65	80°	Framingham 7.0 miles	260°	275 ⁰	None in N.E.
WBZ	990	:	Millis 2 miles south- west of Medfield	42 [°] 11'03" N 71 [°] 20'05" W	50,000	6.00 AM to 1.00 AM (same schedule and program as WBZA)	300 ft (2) Lighted	20.5 miles	50°	65 [°]	Canton - 9.0 miles	97 ⁰	112°	WBZA
WBZA	990		Springfield 2.6 miles east of city	42 ⁰ 08'21" N 72 ⁰ 33'28" W	1000	Daily: 6.00 AM to 1.00 AM. Sunday: 9.00 AM to 12.00 Mid.	220 ft (2) Lighted	79.0 miles	77°	91°	Springfield 1.0 mile	325 ⁰	339 ⁰	WBZ
WCOP	1120		Brighton 4 miles west of Boston	42 ⁰ 22103" N 71 ⁰ 13107" W	500	7.00 AM to average Sunset	227 ft (1) Lighted	5.5 miles	80°	95 [°]	Boston 9.0 miles	80°	95 [°]	None in N.E.
WSPR	1140		West Springfield	42°05'32" N 72°36'20" W	500	7.00 AM to 9.00 PM	222 ft (1) Lighted	84.0 miles	76 [°]	90°	Springfield 4.0 miles	42°	56 ⁰	None in N.E.

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Identification Letters	Frequency (kilocycles)	Dial Reading	Location of Transmitter	Latitude and Longitude	Power	Hours of Operation	Height of Antenna	Distance to Boston Airport	True Bearing Transmitter to Boston Airport	Magnetic Bearing Transmitter to Boston Airport	Distance to Nearest Airport	True Bearing Transmitter to Nearest Airport	Magnetic Bearing Transmitter to Nearest Airport	Nearest Station On Same Frequency
WNAC			Squantum 6.5 miles southeast of Boston	42°18'06" N 71°00'46" W	5000 Day 1000 Night	6.30 AM to 1.00 AM	420 ft (l) Lighted	5.0 miles	355°	10°	Squantum 1.0 mile	270°	285°	None in N.E.
WORC	1280		Auburn 3 miles south of Worcester	42 [°] 13'17" N 71 [°] 49'02" W	500	Daily: 8.00 AM to Midnite Sunday: 8.45 AM to 11.15 PM	100 ft (3)	41.5 miles	76 ⁰	90°	N.Grafton 5.5 miles	90°	104	None in N.E.
WNBH	1310		New Bedford 2 miles south of city	41°36'10" N 70°54'14" W	250 Day 100 Night	7.30 AM to 11.15 PM	184 ft (1)	54.0 miles	352°	07°	Fairhaven	24 [°]	3 9	MINH
WLLH	1370		Lowell 2 miles north- west of airport	42 [°] 38'44" N 71 [°] 18'25" W	250 Day 100 Night	7.30 AM to 12.00 Mid	205 ft (1) Lighted	24.0 miles	141°	156°	Lowell 2.0 miles	141°	156°	V/RDO WQDM
WAAB	1410		Squantum 6.5 miles south- east of Boston	42 [°] 18'06" N 71 [°] 00'46" W	500	Continuous 24 hours (except shut-down periods.) 2nd Mon. 2.15-4.30AM 2nd Thu. 2.45-4.00AM 2nd Fri. 3.30-4.00AM 2nd Sat. 5.30-6.00AM	420 ft (1) Lighted	5.0 miles	355 [°]	10°	Squantum 1.0 mile	270°	285°	None in N.E.
WMAS	1420		Springfield center of city	42°07'00" N 72°36'00" W	250 Day 100 Night	Daily: 7.00 AM to 1.00 AM Sunday: 8.30 AM to 1.00 AM (unlimited)	150 ft (2) Lighted		77 [°]	9 1 °	Springfield 2.0 miles	45°	590	WAGM
WSAR	1450		Fall River 1.5 mile north- west of city	41 43 03" N 71 10 04" W	1000 8.00 AM- 12.00 Mid	7.30 AM to 12.00 Mid Daily except Sunday	206 ft (2) Lighted		09°	24°	Hillsgrove R. I. 13.0 miles	273°	288°	None in N.E.
''TEX	1500		Chelsea 2 miles north- east of Boston	42°23'39" N 71°01'41" W	250 Day 100 Night	8.00 AM to 12.00 Mid	150 ft (1) Lighted		180°	195°	Boston 1.5 mile	180°	195°	WSBY WNLC
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Identification Letters	Frequency (kilocycles)	Dial Reading	Location of Transmitter	Latitude and Longitude	Power (Watts)	Hours of Operation	Height of Antenna	Distance to Boston Airport	True Bearing Transmitter to Boston Airport	Magnetic Bearing Transmitter to Boston Airport	Distance to Nearest Airport	True Bearing Transmitter to Nearest Airport	Magnetic Bearing Transmitter to Nearest Airport	Nearest Station On Same Frequency
WLBZ	6 2 0		Bangor 2.0 miles north from City Hall	44°49'44" N 68°47'08" W	1000 Day 500 Night	8.00 AM to 12.00 Mid.	404 ft (1) Lighted	205 miles	214 [°]	233°	Bangor 2.0 miles	199 ⁰	218°	None in N.E.
WCSH	940		Portland 5.0 miles south- west of city	43 36'01" N 70°19'29" W	2500 Day 1000 Night	7.45 AM to Midnite	300 ft	92 miles	203°	220°	Portland 4.0 miles	10°	27 [°]	None in N.E.
WABI	1200		Bangor 2.5 miles south- east of city	44 ⁰ 46'44" N 68 ⁰ 44'22" W	250 Day 100 Night	Daily: 8.00 AM to 2.00 PM 5.00 PM to 11.00 PM Sunday: 9.00 AM to 9.00 PM	260 ft (1) Lighted	203 miles	21 5°	234 [°]	Bangor 4.0 miles	2 96°	315°	WCAX WTHT WNRI
WRDO	1370		Augusta center of city	44 ⁰ 18'52.5"N 69 ⁰ 46'30.0"W	100	8.00 AM to 11.30 PM	120 ft	150 miles	205°	223°	Augusta 1.0 mile	27 0°	2 88	WCDM
WAGM	1420		Presque Isle 1 mile west of town	46 41'00" N 68 01'30" W	100	Daily: 11.00 AM to 1.00 PM 4.00 PM to 7.00 PM Sunday: 9.45 AM to 2.30 PM	96 ft	334 miles	208°	230°	PresqueIsle 2.0 miles	359°	21°	WMAS
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Identification Letters	Frequency (kilocycles)	Dial Reading	Location of Transmitter	Latitude and Longitude	Jower (Watts)	Hours of Operation	Height of Antenna	Distance to Boston Airport	True Bearing Transmitter to Boston Airport	Magnetio Bearing Transmitter to Boston Airport	Distance to Nearost Airport	True Bearing Transmitter to Nearest Airport	Magnetic Bearing Transmitter to Nearest Airport	Nearest Station On Same Frequency
WDEV	550		Waterbury 2.5 miles north of city	44°22'00" N 72°45'00" W	500	7.00 AM to Local Sunset	435 ft (1) Lighted	164 miles	148°	164°	Barre- Montpelier 15.0 miles	140°	156 ⁰	None in N.E.
WCAX	1200		Burlington center of city	44 29 00" N 73 12 00" W	250 Day 100 Night	Irregular: 7.30 AM to 9.30 PM	250 ft (1) Lighted	180 miles	145 ⁰	161°	Burlington 3.0 miles	100°	116°	WABI WTHT
WIEX	1260		Springfield 1.5 mile north- east of city	43 ⁰ 19'05" N 72 ⁰ 27'41" W	1000	7.00 AM to 9.00 PM	206 ft (2) Lighted	98 miles	131°	146°	Springfield 3.0 miles	305°	320°	None in N.E.
WQDM	1370		St. Albans 2.0 miles south of city	44 50'03" N 73 05'05" W	100	11.00 AM to 2.00 FM	185 ft (1) Lighted	198 miles	148°	164°	Swanton 10.0 miles	360°	16 [°]	WRDO WLLH
WSYB	1500		Rutland center of city	43 [°] 31'00" N 72 [°] 58'45" W	100	Daily except Sunday 10.00 AM to 1.00 PM and 5.00 PM to 9 PM Sunday: 10.00 AM to 11.00 AM	90 ft (2)	130 miles	130°	145°	Rutland 1.0 mile	196 ⁰	211°	WHEX
						Sunday:								

NEW HAM! SHIRE

													HEW HA	M: Shine
W	HEB	740	Portsmouth 2.5 miles north- west of city	43 ⁰ 06'05" N 70 ⁰ 48'44" W	250	8.00 AM to 1 hour after Sunset	165 ft (2) Lighted	51 miles	193°	209°	Fortsmouth 3.5 miles	180°	196 [°]	None in N.E.
W:	LNH	1310	Laconia center of city	43 [°] 31'45" N 71 [°] 28'06" W	100	Unlimited time	170 ft (1)	84 miles	165 ⁰	180°	Laconia 1.0 mile	327°	342°	WMEX WNLC
W	FEA	1340	!anchester 5.5 miles south of city	42 [°] 54'30" N 71 [°] 28'00" W	1000 Day 500 Night	Daily: 8.00 AM to 12 Mid. Sunday: 8.45 AM to 12 Mid.	350 ft 175 ft (2) Lighted	44 miles	149 [°]	164 [°]	Manchester 2.5 miles	25°	40°	None in N.E.

	identification Letters	Frequency (kilocycles)	Dial Reading	Location of Transmitter	Latitude and Longitude	Power (Watts)	Hours of Operation	Reight of Antenna	Distance to Boston Airport	True Bearing Transmitter to Boston Airport	Magnetic Bearing Transmitter to Boston Airport	Distance to Nearest Airport	True Fearing Transmitter to Nearest Airport	Magnetic Bearing Transmitter to Nearest Airport	Nearest Station On Same Frequency
7	ICC	600		Bridgeport 1.5 miles east (Stratford Pt.)	41 ⁰ 09'40" N 73 ⁰ 10'00" W	1000	6.30 AM. to 2.00 AM	300 ft (2) Lighted	139 miles	52°	64°	Bridgeport 3.0 miles	276°	288°	None in N.E.
V	ELI	900		New Haven 2.0 miles west of city	41°18'40" N 72°57'15" W	500	Daily: 7.00 AM.toLocalSunset Sunday: 8.00 AM.toLocalSunset	Lighted	124 miles	54 [°]	67 ⁰	New Haven 2.5 miles	134°	147°	None in N.E.
V	TIC	1040		Hartford 7.0 miles west of city	41°46'34.6"N 72°48'19.9"W	50,000	Daily: 6.00 AM to 1.00 AM Sunday: 9.30 AM to 1.00 AM	213 ft 204 ft (2) Lighted	lOl miles	6 6 °	79 [°]	Hartford (BrainardFld 8.0 miles	112°	125°	None in N.E.
٧	ATR	1190		Waterbury l mile west of city	41 [°] 33'00" N 73 [°] 03'00" W	100	8.00 AM to 8.30 PM	150 ft (2)	119 miles	62°	75	Bristol 10.0 miles	45°	5 8°	None in N.E.
V	THT	1200		Hartford	41°46'06.7"N 72°40'25.7"W	100	Daily: 7.00 AM.toLocalSunset Sunday: 8.00 AM.toLocalSunset	Lighted	95 miles	6 4 °	77°	Hartford (BrainardFld 3.0 miles	166°	179°	WABI WCAX WNRI
γ	DRC	1330		West Suffield	41 59'00" N 72°42'00" W	5000 Day 1000 Night	7.00 AM. to 1.00 AM.	310 ft (1) Lighted	90 miles	73°	86 [°]	Springfield (Mass.) 12.0 miles	30°	44°	None in N.E.
V	NBC	1380		New Britain 2 miles north of city	41°41'35" N 72°45'30" W	250	7.00 AM.toLocalSunset	184 ft (1) Lighted	101 miles	62°	75 [°]	Hartford (BrainardFld 5.5 miles	62 ⁰	75 [°]	None in N.E.
7	NLC	1500		New London center of city	41°21'50" N 72°05'30" W	100	7.00 AM.toLocalSunset	200 ft (1) Lighted	90 miles	38°	51°	Groton 3.0 miles	126°	139°	WSYB WMEX
V	BRY	1530		Naugatuck 4 miles east of city	41°28'13" N 72°58'13" W	1000	Daily: 8.00 AM. to 12 Mid. Sunday: 9.00 AM. to 12 Mid.	190 ft (2) Lighted	119 miles	58 [°]	71°	Meridan 8.0 miles	80	93	None in N.E.

Identification	Frequency (kilocycles)	Dial Reading	Location of Transmitter	Latitude and Longitude	Power (Watts)	Fours of Operation	Height of Antenna	Distance to Boston Airport	True bearing Transmitter to Boston Airport	Matnetic Bearing Transmitter to Boston Airport	Distance to Nearest Airport	True Fearing Transmitter to Nearest Airport	Magnetic Bearing Transmitter to Nearest Airport	Nearest Station On Same Frequency
WPRO	630		South Fawtucket	41°48'08.3"N 71°22'43.8"	1000 Day 500 Night	Daily: 6.00 AM to 12.00Mid. Sunday: 8.00 AM to 12.00Mid.	254 ft (2) Lighted	43 miles	25°	39°	Hillsgrove 10.0 miles	190°	204°	None in N.E.
WEAN	780		Pawtuoket	41°50'04" N 71°21'56" W	1000	Daily: 6.30 AM to 2.00 AM Sunday: 8.00 AM to 2.00 AM	325 ft (2) Lighted	41 miles	25°	3 9°	Hillsgrove 10.5 miles	189°	203°	None in N.E.
WJAR	890		Pawtucket	41 [°] 51'12" N 71 [°] 20'58" W	1000	7.30 AM to 1.00 AM	320 ft (2) Lighted	39.5 miles	25°	39°	Hillsgrove 11.0 miles	188°	202°	None in N. E.
									:					

PART III

BOSTON MUNICIPAL AIRPORT

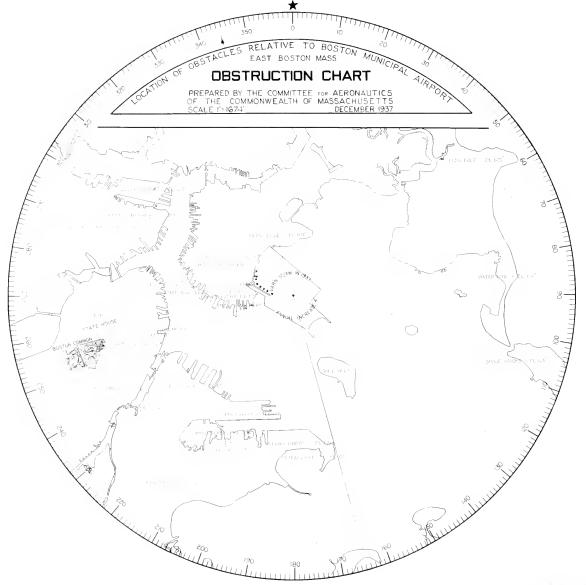
Obstructions Within a 20-1 Gliding Angle

The question of blind landings is a potential factor in the problem of airport development. Airports now in use may well be examined for their future adaptability to blind flight operations. The presence of obstacles, the topography of the airport surroundings in relation to prevailing winds during low visibility, are factors that should be studied and recorded for future reference.

With this in mind The Committee For Aeronautics has prepared a map showing the location of obstructions within a three mile radius of the Boston Municipal Airport. (Plate 22.) This map was made possible through information obtained by the personnel of the Committee's Project, who gathered the data with reference to height, distance and direction from the airport, of the obstacles as noted in red.

The Committee believes that the information supplied herein will serve to more thoroughly acquaint the pilots of aircraft using Boston Municipal Airport as a point of departure and arrival, as to the exact height and location of those obstructions which, under certain conditions, may become hazards to the safe operation of aircraft.







PART IV

AIRPORTS OF MASSACHUSETTS

There are at present 44 Airports within the Commonwealth, divided into the following classifications:-

Municipal	7
Commercial	28
Auxiliary	3
Private	2
Naval	1
National Guard	1
Coast Guard	1
Dept. of Commerce	_1
Total	44

These Airports (excluding the Military, Naval and Coast Guard) were visited by the representatives of The Committee, and the data set forth in this section of the Report was obtained from the owners and operators of the individual airports. The information thus obtained was edited and condensed for convenience in presentation.

In drawing the airport plans a departure from the customary method was taken. It will be noted that in each drawing a portion of the airport area is inclosed by a heavy line, which denotes the present usable area of the field. The remaining area of the field, not inclosed by the heavy line, may be covered with brush, the terrain may be rough, or in other ways undesirable for the operation of aircraft.

The topography and property lines were established from plans obtained at the Office of the Aviation Section of the Registry of Motor Vehicles, and revised from data secured in the field. The boundaries of the usable area and the length and direction of runways were plotted from information obtained from the Airport owners and operators. The location maps are based on U. S. Geological Survey sheets.

BARNSTABLE, MASSACHUSETTS

1. NAME OF AIRPORT Hyannis Airport CLASS Municipal

OWNER Town of Barnstable, Mass.

LESSEE Alton B. Sherman, Hyannis, Mass.

OPERATOR Hyannis Airport Corporation, Box 592, Hyannis, Mass.

2. LOCATION

DISTANCE AND DIRECTION BY ROAD FROM CENTER OF CITY

1 mile North of Hyannis

LANDMARKS Traffic circle at N.W. corner of field

AIRLINE DISTANCE FROM CENTER OF CITY 2 mile to Hyannis

DISTANCE BY ROAD FROM POST OFFICE 12 miles to Hyannis Post
Office

NAME AND LOCATION OF ROAD TO NEAREST TOWN Mary Dunn Road borders airport on South and leads to Main Street, Hyannis

LATITUDE 41°40'00" LONGITUDE 70°17'00" ALTITUDE ABOVE SEA LEVEL 15 feet

DESCRIPTION

SHAPE Triangular

TOTAL AREA OF FIELD 109.5 Acres

AREA AVAILABLE FOR LANDING AND TAKING-OFF 77.5 Acres

TYPE OF SOIL Sandy GRADIENT Level

NATURE OF SURFACE Sod

IS IT AN ALL-WAY FIELD Yes IS LANDING AREA FENCED No SURROUNDING PROPERTY OWNED OR CONTROLLED BY OWNER OR OPERATOR No IN WHAT DIRECTION IS LAND AVAILABLE FOR EXPANSION Town might be able to purchase about 20 acres to North and N.W.

4. DRAINAGE

WHAT TYPE IS PRESENT DRAINAGE SYSTEM Natural

IS THIS ADEQUATE FOR ORDINARY WEATHER CONDITIONS Not in Spring

DOES WATER STAND ON FIELD Yes, in spots

IS FIELD SUBJECT TO PERIODIC FLOODING No

IS FIELD USEABLE DURING THAWS Yes

5. SERVICE May to October

SERVICING---Day Yes Night Yes

REPAIRS Yes

REPAIR FACILITIES --- Engine Minor repairs only

Aircraft Minor repairs only

GASOLINE Yes OCTANE RATING 80 and 87% ARE SPARE PARTS AVAILABLE NO HANGAR STORAGE CHARGES \$2.50 per night and up. \$30.00 to \$35.00 per month

ADMINISTRATION BUILDING Yes REST ROOMS Yes RESTAURANT NO IS RAILROAD SIDING AT AIRPORT NO TRANSPORTATION TO CITY Taxi and private car

FIRST AID Yes FIRE APPARATUS Yes

6. COMMUNICATION

TELEPHONE CONNECTION Yes

RADIO NO
NEAREST BROADCASTING STATION WNEH - New Bedford - 1310 K.C.

ARE WEATHER REPORTS AVAILABLE Yes, by telephone from Boston AIRWAY TELETYPE No VISUAL TRAFFIC CONTROL No

7•	METEOROLOGICAL DATA	Annual	Winter	Summer
	PREVAILING WIND DIRECTION	s.w.	N.W.	S.W.
	PREVAILING WIND PERCENTAGE	29.3	38.2	42.5
	RAINFALL AVERAGE, inches	46.03	16.75	16.99
	TEMPERATURE, maximum	91.0	65.0	91.0
	TEMPERATURE, minimum	-12.0	-12.0	41.0

REMARKS: Data obtained from the Cooperative Weather Station at State Teacher's College, Hyannis, and climatological reports of the U. S. Weather Bureau.

Climatological data taken over a 6 year period.

Wind data taken over a 5 year period.

8. LANDING STRIPS

None

9. USUAL TAKE-OFF AND LANDING DIRECTIONS AND LENGTHS

N.E. - S.W. 2500 ft. N. - S. 2600 ft. N.W. - S.E. 2500 ft.

None

11. APRONS AND TAXIWAYS

None

12. HANGARS

One 60' x 90' Metal hangar with concrete floor

13. ADMINISTRATION OR OTHER BUILDINGS

One Wooden Frame House 30'x 40' One Wooden Building 20'x 20'

14. OBSTRUCTIONS WITHIN A 20 TO 1 GLIDING ANGLE

30' Pole line along State highway on Southwest side Code beacon on hangar roof Buildings to South and East

15. IS LANDING AREA TO BE KEPT CLEAR FOR USE AT ALL TIMES Yes

16. MARKING AND IDENTIFICATION

STANDARD CIRCLE Yes

NAME PAINTED ON HANGAR Hyannis Airport

OTHER MARKINGS "Hyannis" in traffic circle

WIND DIRECTION INDICATOR 8' Sock ILLUMINATED Yes

ARE OBSTRUCTIONS MARKED No

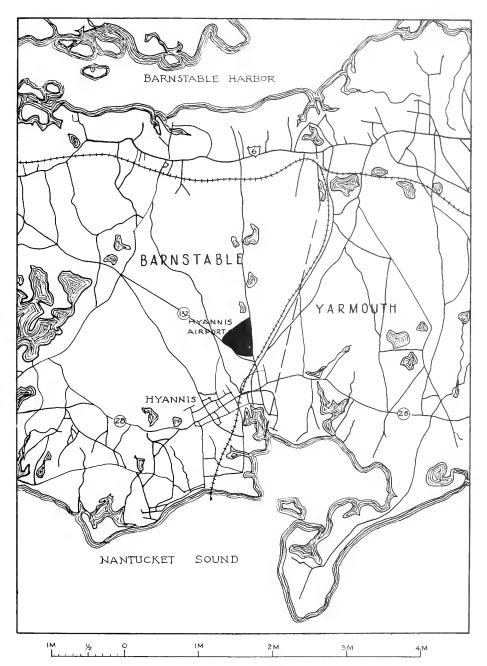
ARE OBSTRUCTIONS LIGHTED Red lights on poles to South and

ARE LANDING STRIPS OR RUNWAYS LIGHTED No

17. LIGHTING

1500 Watt flashing beacon on hangar roof. Code H (....) One bank of floodlights.

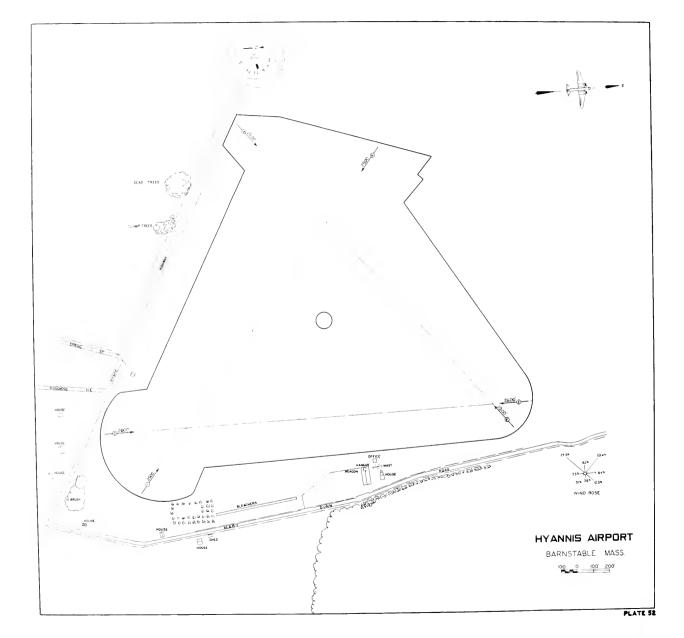




LOCATION MAP

HYANNIS AIRPORT

BARNSTABLE MASS



BEVERLY. MASSACHUSETTS

1. NAME OF AIRPORT Beverly Airport CLASS Municipal

OWNER Mrs. Addie Swift, Cabot Street, Beverly, Mass.

LESSEE City of Beverly

OPERATOR Beverly Aero Club. Beverly, Mass.

2. LOCATION

DISTANCE AND DIRECTION BY ROAD FROM CENTER OF CITY 32 miles N.W.

LANDMARKS Wenham Lake $1\frac{1}{2}$ miles N.E. Danvers State Hospital 3 miles West

AIRLINE DISTANCE FROM CENTER OF CITY 3 miles

DISTANCE BY ROAD FROM POST OFFICE 32 miles

NAME AND LOCATION OF ROAD TO NEAREST TOWN $\frac{1}{2}$ mile dirt road from airport to Cabot Street to Beverly.

LATITUDE 42°34'00" LONGITUDE 70°55'00"
ALTITUDE ABOVE SEA LEVEL 150 feet

DESCRIPTION

SHAPE Irregular

TOTAL AREA OF FIELD 40 Acres

AREA AVAILABLE FOR LANDING AND TAKING-OFF 28 Acres

TYPE OF SOIL Loam with clay subsoil GRADIENT 1% W to E .75% N to S

NATURE OF SURFACE Sod

IS IT AN ALL-WAY FIELD Yes IS LANDING AREA FENCED NO

SURROUNDING PROPERTY OWNED OR CONTROLLED BY OWNER OR OPERATOR No

IS THIS PROPERTY ZONED No

IN WHAT DIRECTION IS LAND AVAILABLE FOR EXPANSION To the NE 125, SW 1375. NW 750. SE 850. E 150 and W 800.

4. DRAINAGE

WHAT TYPE IS PRESENT DRAINAGE SYSTEM Natural, with stone drains and also some 8 inch tile pipe

IS THIS ADEQUATE FOR ORDINARY WEATHER CONDITIONS Yes

DOES WATER STAND ON FIELD Yes, during heavy rain

IS FIELD SUBJECT TO PERIODIC FLOODING No.

IS FIELD USEABLE DURING THAWS No.

SERVICING -- Day On call during day Night No

REPAIRS Yes, on call during day

REPAIR FACILITIES --- Engine Minor only

Aircraft Minor only

GASOLINE Yes OCTANE RATING 73%

ARE SPARE PARTS AVAILABLE No HANGAR STORAGE CHARGES \$1.50 per

HANGAR STORAGE CHARGES \$1.50 per day and up
ADMINISTRATION BUILDING Small Office REST ROOMS Yes RESTAURANT No

IS RAILROAD SIDING AT AIRPORT No

TRANSPORTATION TO CITY Private car or taxi

FIRST AID Yes FIRE APPARATUS Yes

6. COMMUNICATION

TELEPHONE CONNECTION Yes

RADIO No

NEAREST BROADCASTING STATIONS WNAC - Boston - 1230 K.C.

WAAB - Boston - 1110 K.C.

WEEI - Boston - 590 K.C.

ARE WEATHER REPORTS AVAILABLE Yes

AIRWAY TELETYPE No VISUAL TRAFFIC CONTROL No

7.	METEOROLOGICAL DATA	Annual	Winter	Summer
	PREVAILING WIND DIRECTION	N.W.	N.W.	S.E.
	PREVAILING WIND PERCENTAGE	22.2	32.0	21.2
	RAINFALL AVERAGE, inches	37•99		
	TEMPERATURE, maximum	104.0	71.0	104.0
	TEMPERATURE, minimum	-19.0	-19.0	31.0

REMARKS: Wind data obtained from Coast Guard Station #20-17 miles
N.E. of airport. Climatological data taken from reports
of the U. S. Weather Bureau Station at Haverhill, Mass.
Climatological data taken over an 8 year period.
Wind data taken over a 10 year period.

8. LANDING STRIPS

None

9. USUAL TAKE-OFF AND LANDING DIRECTIONS AND LENGTHS

N.E. - S.W. 1000'

N.W. - S.E. 1400'

E. - W. 1050'

None

11. APRONS AND TAXIVAYS

None

12. HANGARS

One 60' x 60' Metal hangar with cement floor

13. ADMINISTRATION OR OTHER BUILDINGS

One 20' x 12' Office and one 10' x 6' rest room

14. OBSTRUCTIONS WITHIN A 20 TO 1 GLIDING ANGLE

None

15. IS LANDING AREA TO BE KEPT CLEAR FOR USE AT ALL TIMES

Not in winter

16. MARKING AND IDENTIFICATION

STANDARD CIRCLE Yes, with 2' band

NAME PAINTED ON HANGAR "Beverly"

OTHER MARKINGS None

WIND DIRECTION INDICATOR Two 10' Cones ILLUMINATED One

ARE OBSTRUCTIONS MARKED No LIGHTED No

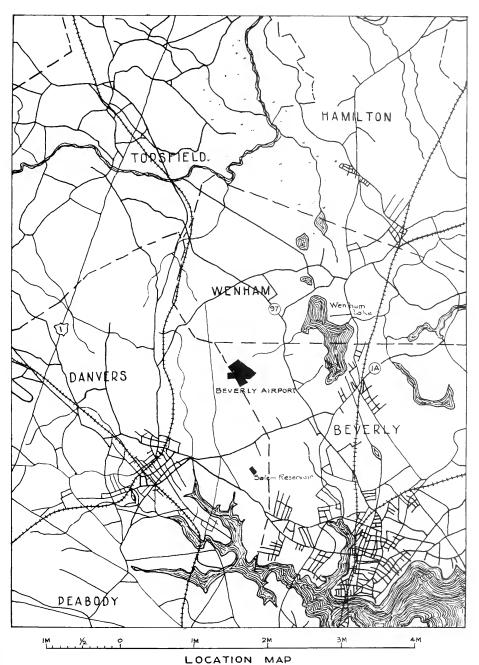
ARE LANDING STRIPS OR RUNWAYS LIGHTED No

17. LIGHTING

One 24" single end 500 watt rotating beacon in rear of hangar.

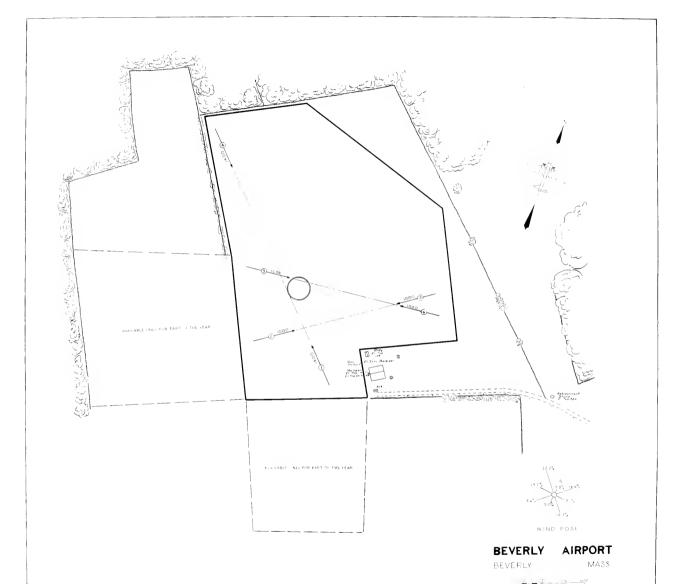
Code W (.--)
No other lighting.





BEVERLY AIRPORT
BEVERLY MASS.





19	

BILLERICA AND TEWKSBURY, MASSACHUSETTS

1. NAME OF AIRPORT Lowell Airport CLASS Commercial

OWNER Wamesit Power Company, 100 Whipple Street, Lowell, Mass.

LESSEE None

OPERATOR Creamer Flying Service, Lowell Airport, Lowell, Mass.

2. LOCATION

DISTANCE AND DIRECTION BY ROAD FROM CENTER OF CITY 3 miles S.E. of Lowell

LANDMARKS Concord River on West boundary. B. & M. R.R. on East boundary. Consolidated Rendering Company on South boundary.

AIRLINE DISTANCE FROM CENTER OF CITY 2 miles to Lowell
DISTANCE BY ROAD FROM POST OFFICE 3 miles to Lowell Post Office
NAME AND LOCATION OF ROAD TO NEAREST TOWN Woburn Street to Lowell
on East boundary

LATITUDE 42°37'00" LONGITUDE 71°18'00" ALTITUDE ABOVE SEA LEVEL 100 feet

DESCRIPTION

SHAPE Rectangular DIMENSIONS E 1400', S 2000', W 1400', N 2000'

TOTAL AREA OF FIELD 65 Acres

AREA AVAILABLE FOR LANDING AND TAKING-OFF 20.7 Acres

TYPE OF SOIL Hard gravel and sand GRADIENT 1.5% N to S. and 2.3% from center to S.E. and N.W.

NATURE OF SURFACE Wild grass and weeds

IS IT AN ALL-WAY FIELD No IS LANDING AREA FENCED No

SURROUNDING PROPERTY OWNED OR CONTROLLED BY OWNER OR OPERATOR Yes

IS THIS PROPERTY ZONED Yes

IN WHAT DIRECTION IS AREA AVAILABLE FOR EXPANSION None

4. DRAINAGE

WHAT TYPE IS PRESENT DRAINAGE SYSTEM Natural

IS THIS ADEQUATE FOR ORDINARY WEATHER CONDITIONS Yes

DOES WATER STAND ON FIELD NO

IS FIELD SUBJECT TO PERIODIC FLOODING No

IS FIELD USEABLE DURING THAWS Yes

SERVICING---Day No Night No

REPAIRS No

REPAIR FACILITIES---Engine No

Aircraft No

GASOLINE Yes OCTANE RATING 73%

ARE SPARE PARTS AVAILABLE

HANGAR STORAGE CHARGES No storage

ADMINISTRATION BUILDING Office only REST ROOMS NO
IS RAILROAD SIDING AT AIRPORT Yes, Boston & Maine Railroad
TRANSPORTATION TO CITY By taxi and bus RESTAURANT No

No

FIRST AID No FIRE APPARATUS Yes

COMMUNICATION

TELEPHONE CONNECTION Yes

RADIO No

NEAREST BROADCASTING STATIONS WLLH - Lowell - 1370 K.C. WLAW - Lawrence 680 K.C.

ARE WEATHER REPORTS AVAILABLE Yes, by telephone from Boston AIRWAY TELETYPE No VISUAL TRAFFIC CONTROL No

 METEOROLOGICAL DATA Annual Winter Summer PREVAILING WIND DIRECTION N.W. N.W. N.W. S.W. PREVAILING WIND PERCENTAGE 32.8 27.0 RAINFALL AVERAGE, inches 41.93 15.11 14.26 TEMPERATURE, maximum 69.0 98.0 98.0 TEMPERATURE, minimum -21.0 -21.0

REMARKS: Data obtained from Proprietors of Locks and Canals,
Lowell, Mass., and climatological reports of the U. S.
Weather Bureau.

Climatological data taken over a 13 year period. Wind data taken over a 11 year period.

8. LANDING STRIPS

None

9. USUAL TAKE-OFF AND LANDING DIRECTIONS AND LENGTHS

N.W. - S.E. 1100 ft.

N.E. - S.W. 800 ft.

None

11. APRONS AND TAXIWAYS

None

12. HANGARS

One 40' x 40' Metal hangar - cinder floor - unheated. Hangar door 40' x 12'

13. ADMINISTRATION OR OTHER BUILDINGS

Lean-to office on end of factory building. 25' x 14' x 10' Wood

14. OBSTRUCTIONS WITHIN A 20 TO 1 GLIDING ANGLE

Water tower on hill, West side of river. Factory with 135' water tower on North edge of field Factory with 125' water tower on South edge of field

Ground hazards. Boston & Maine Railroad tracks on East edge of field. 20' Drop to river on West edge of field with convectional currents.

15. IS LANDING AREA TO BE KEPT CLEAR FOR USE AT ALL TIMES

Yes. except in winter. Local ships use skiis.

16. MARKING AND IDENTIFICATION

STANDARD CIRCLE No

NAME PAINTED ON HANGAR No

OTHER MARKINGS "Lowell Airport" on factory water tower

WIND DIRECTION INDICATOR 8' Sock ILLUMINATED No

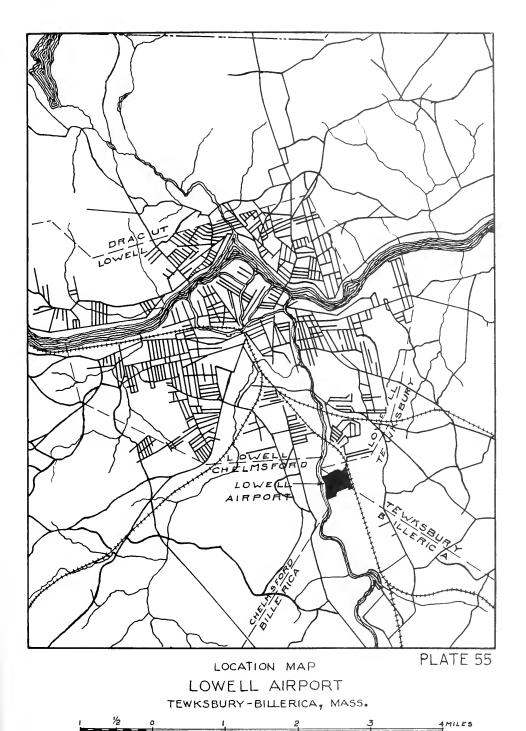
ARE OBSTRUCTIONS MARKED No LIGHTED No

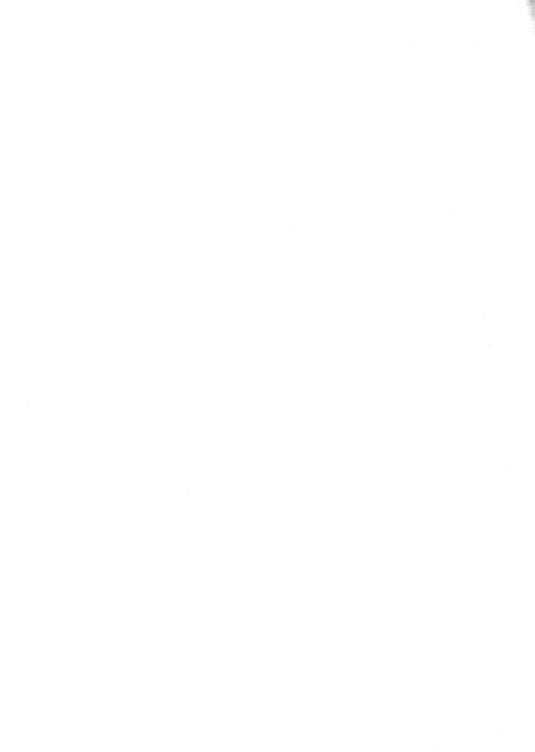
ARE LANDING STRIPS OR RUNWAYS LIGHTED No

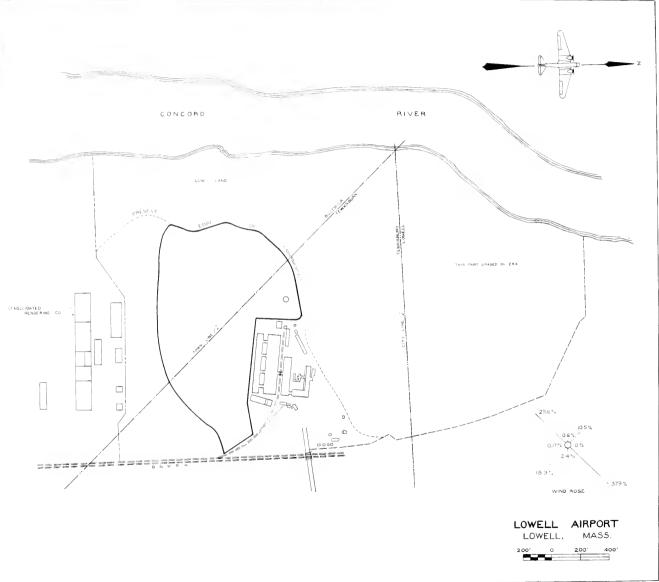
17. LIGHTING

None

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BOSTON, MASSACHUSETTS

1. NAME OF AIRPORT Boston Municipal Airport CLASS Municipal

OWNER Commonwealth of Massachusetts

LESSEE Park Department, City of Boston, Massachusetts

OPERATOR Park Department, City of Boston, Massachusetts

2. LOCATION

DISTANCE AND DIRECTION BY ROAD FROM CENTER OF CITY $2\frac{1}{2}$ miles East of Boston, in East Boston

LANDMARKS Airport lies between Governor's Island and East Boston

AIRLINE DISTANCE FROM CENTER OF CITY 12 miles East of Boston

DISTANCE BY ROAD FROM POST OFFICE $2\frac{1}{2}$ miles from Boston Post Office

NAME AND LOCATION OF ROAD TO NEAREST TOWN Maverick Street from Administration Building to Summer Tunnel to Boston

LATITUDE 42°22'00" LONGITUDE 71°01'40"
ALTITUDE ABOVE SEA LEVEL 12 feet

DESCRIPTION

SHAPE Rectangle DIMENSIONS 2800 x 3800 t

TOTAL AREA OF FIELD 250 Acres

AREA AVAILABLE FOR LANDING AND TAKING-OFF 206 Acres

TYPE OF SOIL Fill GRADIENT Level

NATURE OF SURFACE Cinders and some concrete

IS IT AN ALL-WAY FIELD Yes IS LANDING AREA FENCED Yes, fence and bulkheads

IS THIS PROPERTY ZONED No

IN WHAT DIRECTION IS LAND AVAILABLE FOR EXPANSION Land can be made by more fill to N.E., E., S., S.E. and S.W.

4. DRAINAGE

WHAT TYPE IS PRESENT DRAINAGE SYSTEM Artificial

IS THIS ADEQUATE FOR ORDINARY WEATHER CONDITIONS Yes

DOES WATER STAND ON FIELD No

IS FIELD SUBJECT TO PERIODIC FLOODING No

IS FIELD USEABLE DURING THAWS Yes

SERVICING---Day Yes Night Yes

REPAIRS Yes

REPAIR FACILITIES---Engine Yes

Aircraft Yes

GASOLINE Yes OCTANE RATING 80, 82 and 90%
ARE SPARE PARTS AVAILABLE Yes
HANGAR STORAGE CHARGES \$1.00 per foot of wing span per month or
\$0.10 per foot per day.
ADMINISTRATION BUILDING Yes REST ROOMS Yes RESTAURANT Yes
IS RAILROAD SIDING AT AIRPORT No, it is one mile from airport

IS RAILROAD SIDING AT AIRPORT No, it is one mile from airport TRANSPORTATION TO CITY Taxi, airline limousine, street railway or ferry.

FIRST AID Yes

FIRE APPARATUS Yes

6. COMMUNICATION

TELEPHONE CONNECTION Yes

RADIO Yes, WAPB 278 K.C., 8 A.M. to Midnight. WSX 263 K.C. 24 hrs

NEAREST RADIO BROADCASTING STATIONS WBZ - Boston - 990 K.C.

WEEI - Boston - 590 K.C.

WNAC - Boston 1230 K.C.

ARE WEATHER REPORTS AVAILABLE Yes

AIRWAY TELETYPE Yes VISUAL TRAFFIC CONTROL Yes

7.	METEOROLOGICAL DATA	An	nual	Winter	Summer
	PREVAILING WIND DIRECTION	W.	N.W.	N.W.	S.W.
	PREVAILING WIND PERCENTAGE	16.0	16.7	22.0	18.0
	RAINFALL AVERAGE, inches	39.	52	13.89	13.45
	TEMPERATURE, maximum	103.	0	80.0	103.0
	TEMPERATURE, minimum	-18.	0	-18.0	40.0

REMARKS: Data obtained from office of the U. S. Weather Bureau,
Boston Municipal Airport, East Boston, Mass., and
climatological reports of U. S. Weather Bureau, Boston.
Climatological data taken over a 13 year period.
Wind data taken over a 7 year period.

8. LANDING STRIPS

See Paragraph 9.

9. USUAL TAKE-OFF AND LANDING DIRECTIONS AND LENGTHS

N.W. - S.E. 3600 ft. N. - S. 3200 ft. N.E. - S.W. 2600 ft. E. - W. 3000 ft.

See Paragraph 9.

11. APRONS AND TAXIWAYS

Eight Concrete Take-Off Strips, each approximately 90° x 500° and a Concrete Apron approximately 350° wide in front of all buildings, designed for 40 ton load.

12. HANGARS

The following buildings are brick and steel, with concrete floor:

Inter-City Airlines 100' x 120' Shobe Airlines 100' x 150'

National Airways 85' x 200' American Airlines 120' x 150'

U. S. Army 100' x 120'

130' x 175

13. ADMINISTRATION OR OTHER BUILDINGS

Mass. Nat. Guard

Inter-City Airlines Repair Shop 100' x 140' Brick and steel, with concrete floor.

Administration Building 160' x 90' Brick and steel.

14. OBSTRUCTIONS WITHIN A 20 TO 1 GLIDING ANGLE

Custom House Tower, Boston Grain Elevator, B&A RR, E. Boston Water Tank, B&A RR, E. Boston Steeple-Church, Summer St., E. Boston Flag Pole, M. J. Brophy Park, E. Boston Stack, Boat Yard, E. Boston Trees, Wood Island, E. Boston	112' 105'	Distance 9580; 4353; 5320; 4040; 3920; 2600; 3600;	Direction S.S.W. N.W. N.W. N.W. N.W. N.W. N.W. N.
Flag Pole, Wood Island, E. Boston	1071	3800 1	N_{\bullet}

15. IS LANDING AREA TO BE KEPT CLEAR FOR USE AT ALL TIMES YES

16. MARKING AND IDENTIFICATION

STANDARD CIRCLE Yes

NAME PAINTED ON HANGAR "Boston M" on roof of American Airways hangar, illuminated at night.

OTHER MARKINGS "Mass. N. G." on roof of National Guard hangar.
"Army" on roof of the U. S. Army hangar.

WIND DIRECTION INDICATOR Smoke pot in center of airport, tee and cone, illuminated.

ARE OBSTRUCTIONS MARKED Yes LIGHTED Yes

ARE LANDING STRIPS OR RUNWAYS LIGHTED Yes, entire field is flood-lighted.

17. LIGHTING

Single end 24" 1000 watt rotating beam-code D (---). 40 Plain boundary lights. Ceiling projector. Landing floodlights.

18. DESCRIPTION OF SEAPLANE OR AMPHIBIAN BASE OR ANCHORAGE

NAME OF SEAPLANE OR AMPHIBIAN BASE Boston Municipal Airport

DISTANCE AND DIRECTION TO NEAREST CITY 1 mile East of Boston

BODY OF WATER IN WHICH LOCATED Boston Harbor

LANDING AND TAKE-OFF AREA Harbor Channel

DEPTH OF WATER-HIGH TIDE 20 feet LOW TIDE 12 feet

CURRENT Tide

OBSTRUCTIONS-IF AN HOW MARKED Not marked

WIND Same as airport ICE PERIOD Jan. and Feb.

FOG PERIOD Same as airport

PERIOD BASE AVAILABLE FOR USE May through December under ordinary conditions

FACILITIES:

RAMP Yes HAULING OUT EQUIPMENT Yes

BEACH No MOORING BUOYS, IF AND HOW MARKED Yes, not marked

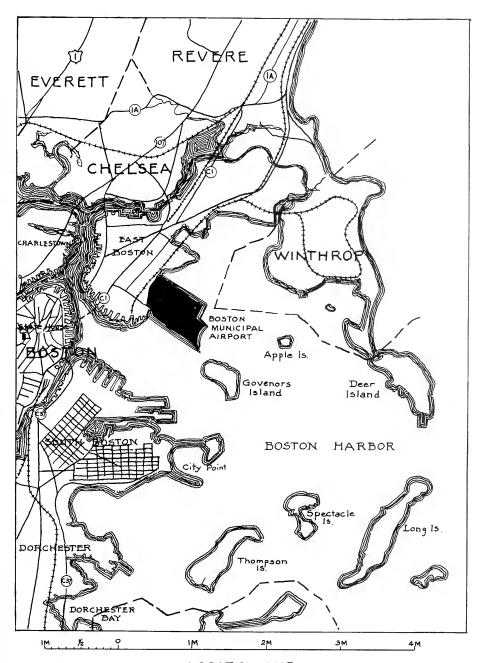
LIGHTS No

SERVICING AFFORDED: Same as airport

FUEL AT WHARF No RAMP Yes BY BOAT Yes, possible

COMMUNICATION SYSTEM: Same as airport

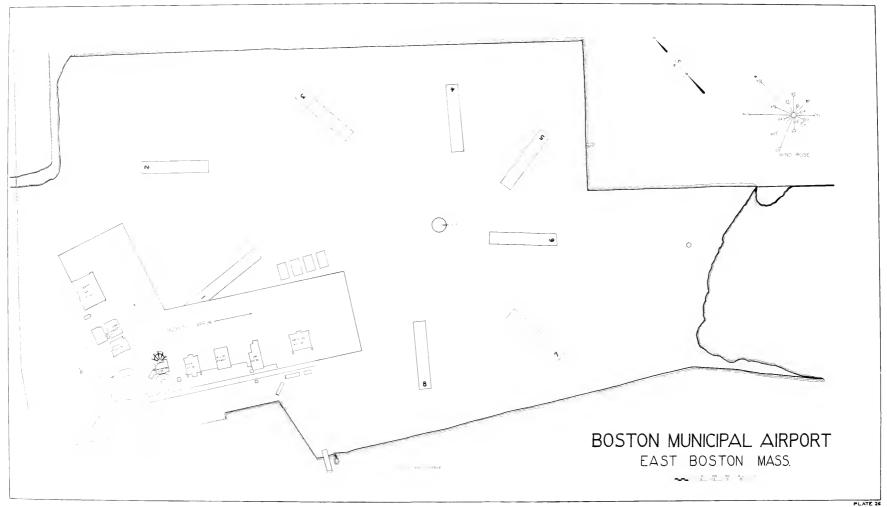
RADIO Yes TELEPHONE Yes



BOSTON

LOCATION MAP
MUNICIPAL
BOSTON MASS

AIRPORT



5			
			•

BROCKTON, MASSACHUSETTS

1. NAME OF AIRPORT Brockton Airport CLASS Commercial

OWNER James C. Keith, Brockton, Mass.

LESSEE None

OPERATOR Lyle and Ames, Brockton Airport, Brockton, Mass.

2. LOCATION

DISTANCE AND DIRECTION FROM CENTER OF CITY 3 miles South

AIRLINE DISTANCE FROM CENTER OF CITY 3 miles

DISTANCE BY ROAD FROM POST OFFICE 3 miles

NAME AND LOCATION OF ROAD TO NEAREST TOWN Main St., Rt. #28, is

East of airport and leads to Brockton, Boston and Cape
Cod.

LATITUDE 42°03'00" LONGITUDE 71°01'00" ALTITUDE ABOVE SEA LEVEL 128 feet

3. DESCRIPTION

SHAPE Irregular

TOTAL AREA OF FIELD 51.0 Acres

AREA AVAILABLE FOR LANDING AND TAKING-OFF 6.42 Acres of Runways

TYPE OF SOIL Sand and loam with gravel runways

NATURE OF SURFACE Sod GRADIENT E to W 0.3% S to N 0.2%

IS IT AN ALL-WAY FIELD No IS LANDING AREA FENCED No

IS SURROUNDING PROPERTY OWNED OR CONTROLLED BY OWNER OR OPERATOR
Yes

IS THIS PROPERTY ZONED Yes

IN WHAT DIRECTION IS LAND AVAILABLE FOR EXPANSION None

4. DRAINAGE

WHAT TYPE IS PRESENT DRAINAGE SYSTEM Natural and artificial

IS THIS ADEQUATE FOR ORDINARY WEATHER CONDITIONS Yes

DOES WATER STAND ON FIELD No.

IS FIELD SUBJECT TO PERIODIC FLOODING No.

IS FIELD USEABLE DURING THAWS Yes, on runways

Yes SERVICING -- Pay

Night No

REPAIRS

Days only

REPAIR FACILITIES --- Engine

Major and minor

Aircraft None

GASCLINE Yes OCTANE RATING

73%

ARE SPARE PARTS AVAILABLE None

HANGAR STORAGE CHARGES \$1.00 per night. \$10.00 to \$15.00 per mo.

ADMINISTRATION BUILDING Yes REST ROOMS Yes RESTAURANT No IS RAILROAD SIDING AT AIRPORT No TRANSPORTATION TO CITY By bus or taxi

FIRST AID

Yes

FIRE APPARATUS

Yes

32.0

6. COMMUNICATION

TELEPHONE CONNECTION

TEMPERATURE, minimum

RADIO No

NEAREST FROADCASTING STATIONS

WBZ - Boston - 990 K.C. WNAC - Boston - 1230 K.C.

WEEI - Boston - 590 K.C.

-19.0

ARE WEATHER REPORTS AVAILABLE Yes, by telephone from Boston VISUAL TRAFFIC CONTROL AIRWAY TELETYPE No

7.	METECROLOGICAL DATA	Annual	Winter	Summer
	PREVAILING WIND DIRECTION		W. N.W.	S.W.
	FREVAILING WIND PERCENTAGE	22.2 21.2	27.5 27.2	22.5
	RAINFALL AVERAGE, inches	40.85	13.19	13.23
	TEMPERATURE, maximum	104.0	71.0	104.0

No

REMARKS: Data obtained from office of City Engineer, Brockton, and climatological reports of Cooperative Weather Bureau Station at Blue Hill. Climatological data taken over a 13 year period.

-19.0

Wind data taken over a 11 year period.

8. LANDING STRIPS

None

9. USUAL TAKE-OFF AND LANDING DIRECTIONS AND LENGTHS

None

N. - S. 1300' x 100' E. - W. 1450' x 100'

11. APRONS AND TAXIWAYS

None

12. HANGARS

One 60' x 60' Metal hangar - dirt floor - unheated Hangar door 60' x 12'

13. ADMINISTRATION AND OTHER BUILDINGS

Office building 22' x 14' x 15' Wooden construction

14. OBSTRUCTIONS WITHIN A 20 TO 1 GLIDING ANGLE

40' Pole line to West of airport 22' Pole line to East of airport

Ground hazard, slope at extreme Westerly border, gradient 5.0%

15. IS LANDING AREA TO BE KEPT CLEAR FOR USE AT ALL TIME Yes

16. MARKING AND IDENTIFICATION

STANDARD CIRCLE No

NAME PAINTED ON HANGAR "Brockton" on roof

OTHER MARKINGS None

WIND DIRECTION INDICATOR 8' Sock ILLUMINATED No

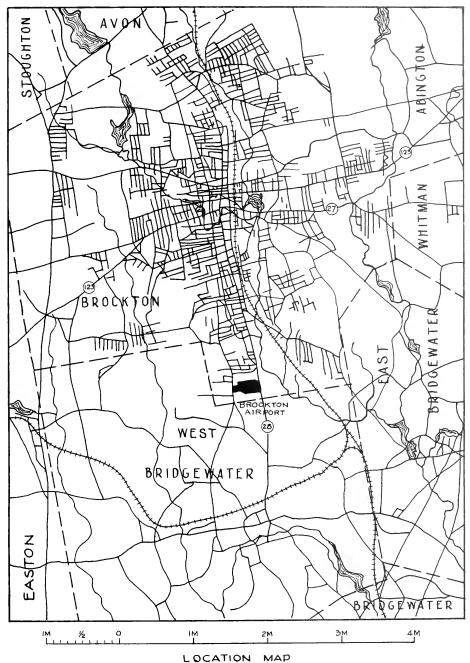
ARE OBSTRUCTIONS MARKED No LIGHTED No

ARE LANDING STRIPS OR RUNWAYS LIGHTED No.

17. LIGHTING

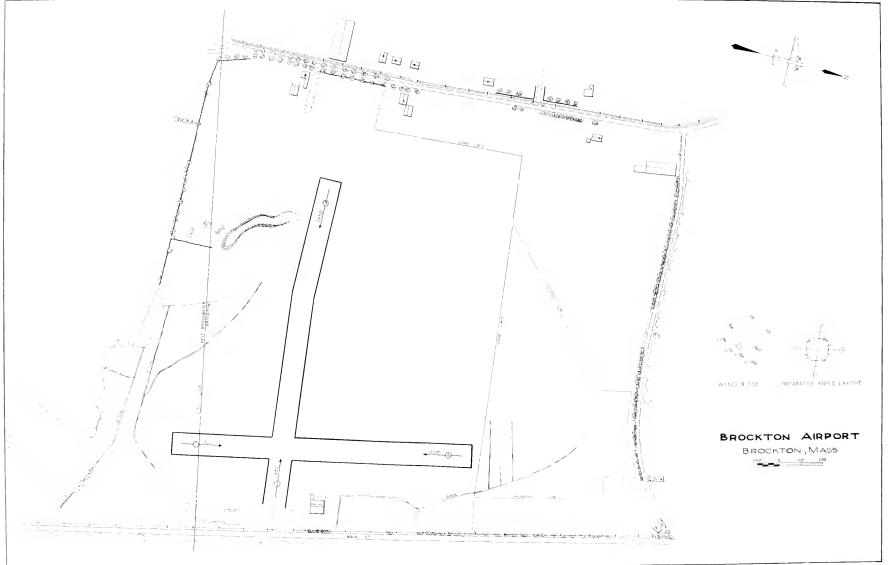
None





BROCKTON BROCKTON

AIRPORT MASS



		•		

1. NAME OF AIRPORT Boston-Metropolitan CLASS Commercial

OWNER Boston-Metropolitan Airport Corp., Norwood, Mass.

LESSEE E. W. Wiggins Airways, Inc., East Boston, Mass.

OPERATOR E. W. Wiggins Airways, Inc., Joseph Garside, 180 Chapman Street, Canton, Mass.

2. LOCATION

DISTANCE AND DIRECTION BY ROAD FROM CENTER OF CITY 2 miles S.E. of Norwood Town Hall and 2 miles N.W. of Canton

LANDMARKS Adjacent to Neponset River

AIRLINE DISTANCE FROM CENTER OF CITY 2 miles S.E. of Norwood , $1\frac{1}{3}$ miles N.W. of Canton

DISTANCE BY ROAD FROM POST OFFICE 24 miles from Norwood Post Office

NAME AND LOCATION OF ROAD TO NEAREST TOWN Neponset Street connecting Route #1, Boston to Providence

LATITUDE 42°10'20" LONGITUDE 71°09'18" ALTITUDE ABOVE SEA LEVEL 51 feet

DESCRIPTION

SHAPE Irregular

TOTAL AREA OF FIELD 127 Acres

AREA AVAILABLE FOR LANDING AND TAKING-OFF 27 Agres

TYPE OF SOIL Gravel and loam GRADIENT Level

NATURE OF SURFACE Gravel with grass binder

IS IT AN ALL-WAY FIELD NO IS LANDING AREA FENCED NO

SURROUNDING PROPERTY OWNED OR CONTROLLED BY OWNER OR OPERATOR Yes

IS THIS PROPERTY ZONED Yes, except a strip of 1 mile along Neponset Street.

IN WHAT DIRECTION IS LAND AVAILABLE FOR EXPANSION TO N, NW, NE, and E.

4. DRAINAGE

WHAT TYPE IS PRESENT DRAINAGE SYSTEM Tile drains, ditches and dyke

IS THIS ADEQUATE FOR ORDINARY WEATHER CONDITIONS

Yes

DOES WATER STAND ON FIELD Yes

IS FIELD SUBJECT TO PERIODIC FLOODING Yes

IS FIELD USEABLE DURING THAWS Yes, except in extreme thaws.

SERVICING--Day Yes

Night

REPAIRS

Major repairs during day only

REPAIR FACILITIES --- Engine

Yes

Aircraft Yes

GASOLINE Yes

OCTANE RATING

73%

No

ARE SPARE PARTS AVAILABLE Yes

HANGAR STORAGE CHARGES \$1.50 per night and up.

\$15.00 per month and up.

ADMINISTRATION BUILDING Yes REST ROOMS Yes RESTAURANT NO IS RAILROAD SIDING AT AIRPORT NO TRANSPORTATION TO CITY By taxi service

FIRST AID Yes

FIRE APPARATUS

Yes

Summer

COMMUNICATION

TELEPHONE CONNECTION Yes

RADIO No

NEAREST BROADCASTING STATIONS WBZ - Boston - 990 K.C.

WNAC - Boston - 1230 K.C.

WEEI - Boston - 590 K.C.

ARE WEATHER REPORTS AVAILABLE Yes, by telephone from Boston AIRWAY TELETYPE No VISUAL TRAFFIC CONTROL No

Annual

7. METEOROLOGICAL DATA

PREVAILING WIND DIRECTION
PREVAILING WIND PERCENTAGE
RAINFALL AVERAGE, inches
TEMPERATURE, maximum
TEMPERATURE, minimum

w.	N.W.	w.	N.W.	S.W.
22.2	21.7	27.5	27.2	22.5
48.	02	16,	,66	16.75
99	.0	71.	0	99.0
-21	0	-21,	0	35.0

Winter

REMARKS: Data obtained from records at Blue Hills Observatory and U. S. Weather Bureau, Boston.
Climatological data compiled over a 13 year period.

Wind data taken over a 10 year period.

8. LANDING STRIPS

None

9. USUAL TAKE-OFF AND LANDING DIRECTIONS AND LENGTHS

N-S 200' wide, 1600' long. E-W 200' wide, 1300' long NE-SW 200' wide, 1350' long. NW-SE 500' wide, 2100' long All gravel runways

11. APRONS AND TAXIWAYS

Area of gravel apron in front of hangars, 1050 square yards

12. HANGARS

One Hangar 70' x 70' Corrugated Iron Steel Frame
One Hangar 80' x 90' Corrugated Iron Steel Frame

Wooden lean-to attached to each hangar as a wing and motor repair shop

13. ADMINISTRATION OR OTHER BUILDINGS

One Wooden Frame Administration Building 25' x 35'

14. OBSTRUCTIONS WITHIN A 20 TO 1 GLIDING ANGLE

Electric light and telephone lines West on Neponset Street Tree at N.W. end of NW-SE runway 45' high 150' Hill and house approximately 2000' E and SE of field

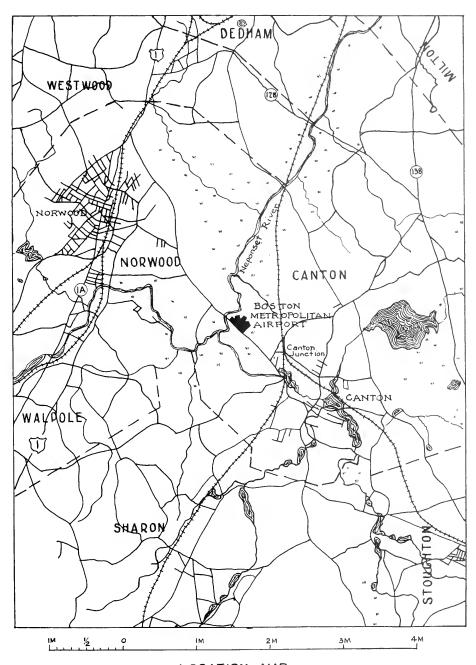
15. IS LANDING AREA TO BE KEPT CLEAR FOR USE AT ALL TIMES Yes

16. MARKING AND IDENTIFICATION

STANDARD CIRCLE No

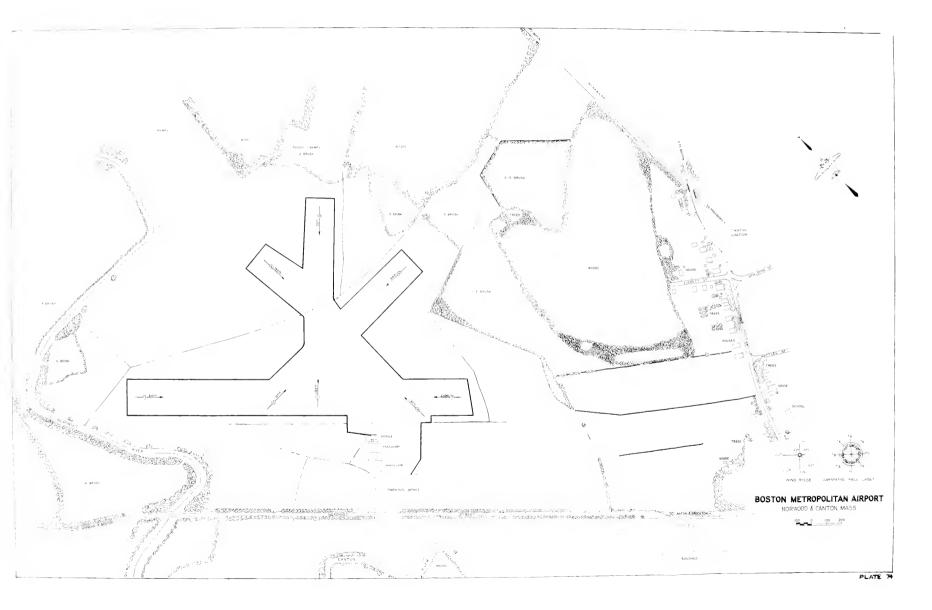
NAME PAINTED ON HANGAR Norwood-Canton & M.A.T.A. on roof
OTHER MARKINGS None
WIND DIRECTION INDICATOR 6' Wind Sock ILLUMINATED No
ARE OBSTRUCTIONS MARKED No LIGHTED No
ARE LANDING STRIPS OR RUNWAYS LIGHTED No

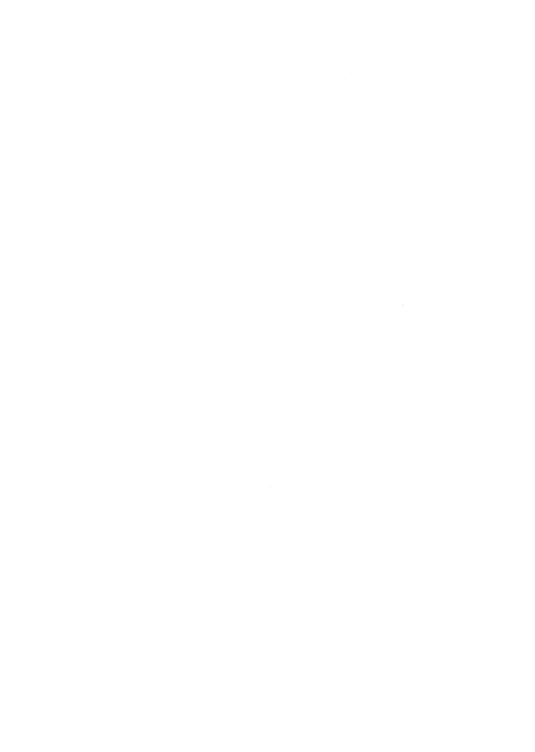
17. LIGHTING



LOCATION MAP BOSTON METROPOLITAN AIRPORT MASS CANTON

PLATE 73





1. NAME OF AIRPORT Katama Airport CLASS Commercial

OWNER Mrs. William C. Vincent, Edgartown, Mass.

LESSEE Katama Airport, Inc., Edgartown, Mass.

OPERATOR Katama Airport, Inc., Edgartown, Mass.

2. LOCATION

DISTANCE AND DIRECTION BY ROAD FROM CENTER OF CITY 2 miles South

LANDMARKS 100' Watertower is \frac{1}{2} mile North of airport

AIRLINE DISTANCE FROM CENTER OF CITY 2 miles

DISTANCE BY ROAD FROM POST OFFICE 2 miles

NAME AND LOCATION OF ROAD TO NEAREST TOWN A town road leads from airport to Edgartown

LATITUDE 41°21'00" LONGITUDE 70°31'00"
ALTITUDE ABOVE SEA LEVEL 5 feet

DESCRIPTION

SHAPE Irregular

TOTAL AREA OF FIELD 45 Acres

AREA AVAILABLE FOR LANDING AND TAKING-OFF 36 Acres

TYPE OF SOIL Sand GRADIENT Level

NATURE OF SURFACE Sod

IS IT AN ALL-WAY FIELD Yes IS LANDING AREA FENCED NO

SURROUNDING PROPERTY OWNED OR CONTROLLED BY OWNER OR OPERATOR Yes

IS THIS PROPERTY ZONED No.

IN WHAT DIRECTION IS LAND AVAILABLE FOR EXPANSION All directions about 2500 feet

4. DRAINAGE

WHAT TYPE IS PRESENT DRAINAGE SYSTEM Natural

IS THIS ADEQUATE FOR ORDINARY WEATHER CONDITIONS Yes

DOES WATER STAND ON FIELD No.

IS FIELD SUBJECT TO PERIODIC FLOODING No.

IS FIELD USEABLE DURING THAWS Yes

SERVICING---Day No Night No

REPAIRS No

REPAIR FACILITIES---Engine No

Aircraft No

GASOLINE Available in town OCTANE RATING 80% ARE SPARE PARTS AVAILABLE No HANGAR STORAGE CHARGES \$1.50 to \$2.00 for 24 hour period

ADMINISTRATION BUILDING No REST ROOMS NO RESTAURANT NO IS RAILROAD SIDING AT AIRPORT NO TRANSPORTATION TO CITY By taxi

FIRST AID No

FIRE APPARATUS Yes

6. COMMUNICATION

TELEPHONE CONNECTION Yes

RADIO No

NEAREST BROADCASTING STATIONS WN

STATIONS WNBH - New Bedford - 1310 K.C.

ARE WEATHER REPORTS AVAILABLE AIRWAY TELETYPE No

Yes, from Boston or Newark
VISUAL TRAFFIC CONTROL No

7•	METEOROLOGICAL DATA	Annual	Winter	Summer
	PREVAILING WIND DIRECTION	S.W.	W.	S.W.
	PREVAILING WIND PERCENTAGE	23.50	24.8	30.5
	RAINFALL AVERAGE, inches	43.17	15.10	13.05
	TEMPERATURE, maximum	92.0	68.0	92.0
	TEMPERATURE, minimum	-6.0	-6.0	47.0

REMARKS: Data obtained from U. S. Weather Bureau Station at
Nantucket.
Climatological data taken over a period of 80 years.
Wind data taken over a period of 10 years.

8. LANDING STRIPS None

9. USUAL TAKE-OFF AND LANDING DIRECTIONS AND LENGTHS

N. - S. 2000 ft.

N.E. - S.W. 1500 ft.

E. - W. 1500 ft.

N.W. - S.E. 1500 ft.

As determined from wind rose for Nobadeer, Nantucket.

None

11. APRONS AND TAXIWAYS

None

12. HANGARS

Two 50' x 50' combination wood and metal hangars with dirt floors. Unheated. Hangar doors 48' x 12'

13. ADMINISTRATION OR OTHER BUILDINGS

One wooden utility building 15' x 12' x 10'

14. OBSTRUCTIONS WITHIN A 20 TO 1 GLIDING ANGLE

30' Telephone pole line at N. E. edge of field Ground hazard, a depression at S. W. end of field

15. IS LANDING AREA TO BE KEPT CLEAR FOR USE AT ALL TIMES Yes

16. MARKING AND IDENTIFICATION

STANDARD CIRCLE No.

NAME PAINTED ON HANGAR "Curtiss-Wright"

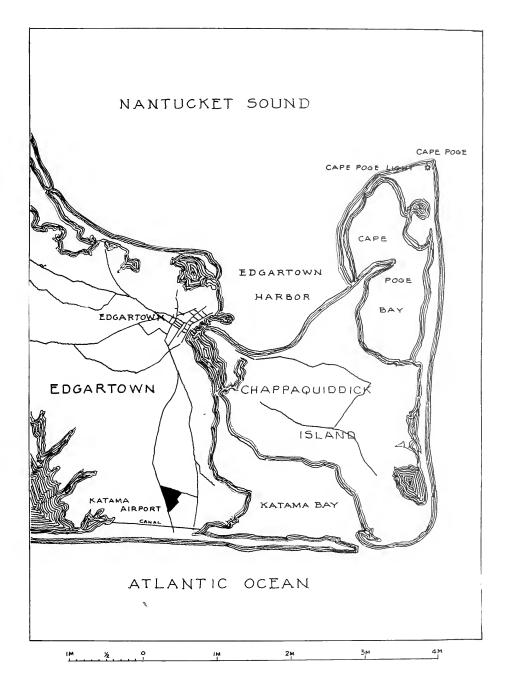
OTHER MARKINGS None

WIND DIRECTION INDICATOR 8' Sock ILLUMINATED No

ARE OBSTRUCTIONS MARKED No LIGHTED No

ARE LANDING STRIPS OR RUNWAYS LIGHTED No

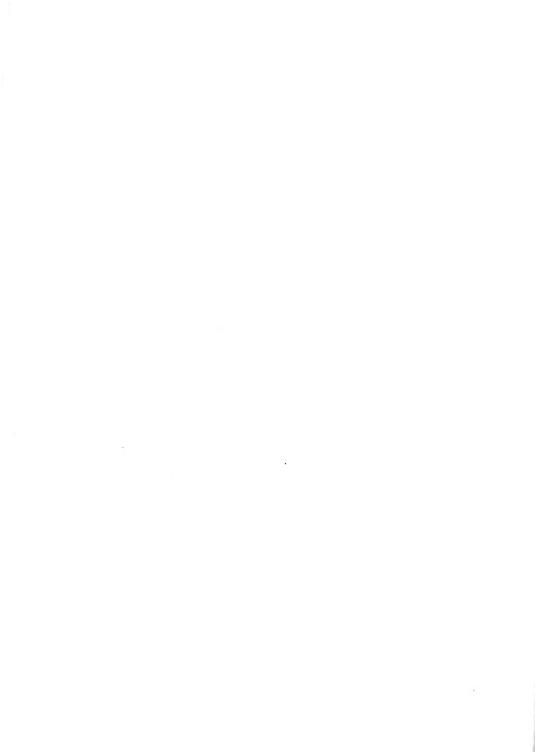
17. LIGHTING

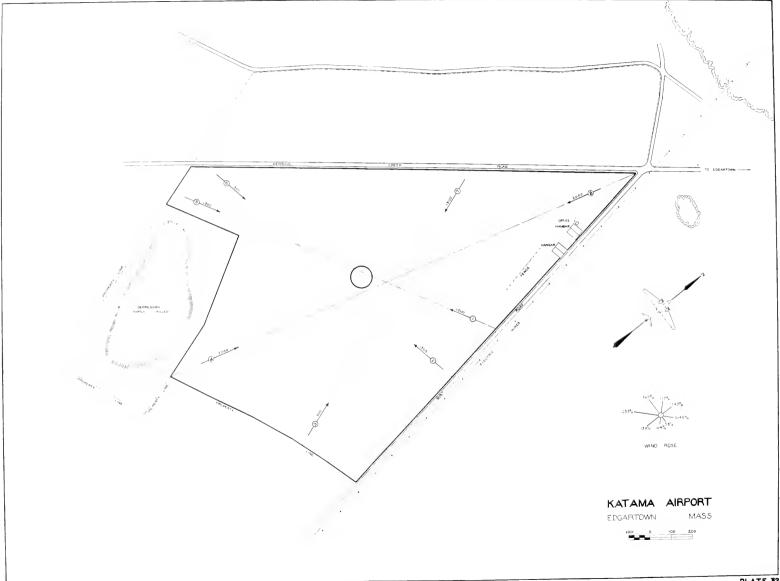


LOCATION MAP

KATAMA EDGARTOWN MASS.

AIRPORT







FALMOUTH. MASSACHUSETTS

1. NAME OF AIRPORT Falmouth Airport CLASS Municipal

OWNER Coonamassett Ranch Company, Falmouth, Mass.

LESSEE Town of Falmouth, Mass.

OPERATOR Cape Cod Seaplanes, Inc., Falmouth, Mass.

2. LOCATION

DISTANCE AND DIRECTION BY ROAD FROM CENTER OF CITY 12 miles N.E.

LANDMARKS National Guard Field 2 miles N.E. An orange and black watertower 1.5 miles N.E. A black watertower .5 mile South. Coonamassett Lake 1 mile South.

AIRLINE DISTANCE FROM CENTER OF CITY 6.75 miles to Falmouth

DISTANCE BY ROAD FROM POST OFFICE 4 miles to North Falmouth Post Office

NAME AND LOCATION OF ROAD TO NEAREST TOWN
Hatchville Road to Route #28 to Falmouth or Bourne

LATITUDE 41°37'36" LONGITUDE 70°32'35"
ALTITUDE ABOVE SEA LEVEL 100 feet

DESCRIPTION

SHAPE Rectangular DIMENSIONS 1800' x 3000'

TOTAL AREA OF FIELD 56 Acres

ARRA AVAILABLE FOR LANDING AND TAKING-OFF 40.7 Acres

TYPE OF SOIL Sand and loam GRADIENT Level

NATURE OF SURFACE Sod

IS IT AN ALL-WAY FIELD Yes IS LANDING AREA FENCED No.

SURROUNDING PROPERTY OWNED OR CONTROLLED BY OWNER OR OPERATOR Yes

IS THIS PROPERTY ZONED No.

IN WHAT DIRECTION IS LAND AVAILABLE FOR EXPANSION West, North and East as needed

4. DRAINAGE

WHAT TYPE IS PRESENT DRAINAGE SYSTEM Natural. Ditches on North and N. E. sides

IS THIS ADEQUATE FOR ORDINARY WEATHER CONDITIONS Yes

DOES WATER STAND ON FIELD No.

IS FIELD SUBJECT TO PERIODIC FLOODING No

IS FIELD USEABLE DURING THAWS YOU

SERVICING --- Day Yes, April to December only Night On call

REPAIRS Yes

REPAIR FACILITIES---Engine Yes

Aircraft Yes

GASOLINE Yes OCTANE RATING 73% ARE SPARE PARTS AVAILABLE For minor repairs only HANGAR STORAGE CHARGES \$2.00 and up

ADMINISTRATION BUILDING No REST ROOMS Yes RESTAURANT Yes IS RAILROAD SIDING AT AIRPORT No TRANSPORTATION TO CITY By private automobile

FIRST AID Yes FIRE APPARATUS

6. COMMUNICATION

TELEPHONE CONNECTION Yes
RADIO Receiving set only

NEAREST BROADCASTING STATIONS WNEH - New Bedford - 1310 K.C. WSAR - Fall River - 1450 K.C.

Yes

ARE WEATHER REPORTS AVAILABLE By radio and telephone from Boston AIRWAY TELETYPE No VISUAL TRAFFIC CONTROL No

7•	METEOROLOGICAL DATA	Annual	Winter	Summer
	PREVAILING WIND DIRECTION	s.w.	N.W.	s.w.
	PREVAILING WIND PERCENTAGE	29.3	38.2	42.5
	RAINFALL AVERAGE, inches	46.03	16.75	16.99
	TEMPERATURE, maximum	91.0	65.0	91.0
	TEMPERATURE, minimum	-12.0	-12.0	41.0

REMARKS: Data obtained from records of the U. S. Weather Bureau Station at Hyannis and climatological reports of the U. S. Weather Bureau.

Climatological data taken over a 6 year period.

Wind data taken over a 5 year period.

8. LANDING STRIPS

None

9. USUAL TAKE-OFF AND LANDING DIRECTIONS AND LENGTHS

N.E. - S.W. 1700'

N.W. - S.E. 1500'

None

11. APRONS AND TAXIWAYS

None

12. HANGARS

One 60' x 100' Hangar of corrugated iron construction with truss roof and dirt floor in good condition. Unheated.

13. ADMINISTRATION OR OTHER BUILDINGS

One 20' x 20' Repair shop of wooden construction in fair condition.

14. OBSTRUCTIONS WITHIN A 20 TO 1 GLIDING ANGLE

None

15. IS LANDING AREA TO BE KEPT CLEAR FOR USE AT ALL TIMES YES

16. MARKING AND IDENTIFICATION

STANDARD CIRCLE No.

NAME PAINTED ON HANGAR "Falmouth, Mass."

OTHER MARKINGS None

WIND DIRECTION INDICATOR 12' Sock ILLUMINATED No

ARE OBSTRUCTIONS MARKED No LIGHTED No.

ARE LANDING STRIPS OR RUNWAYS LIGHTED No.

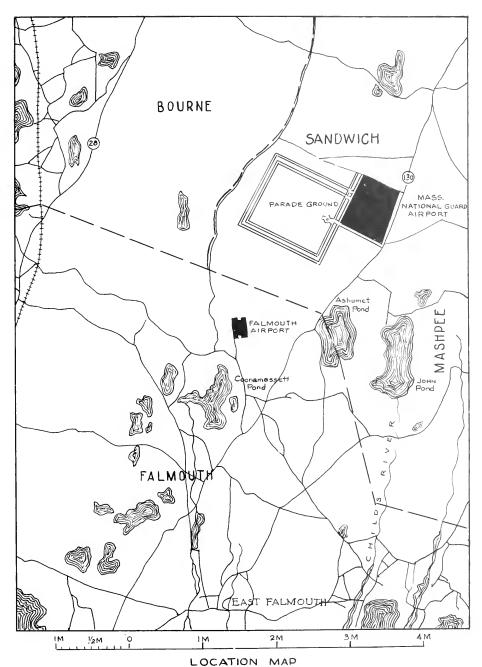
17. LIGHTING

None

18. REMARKS

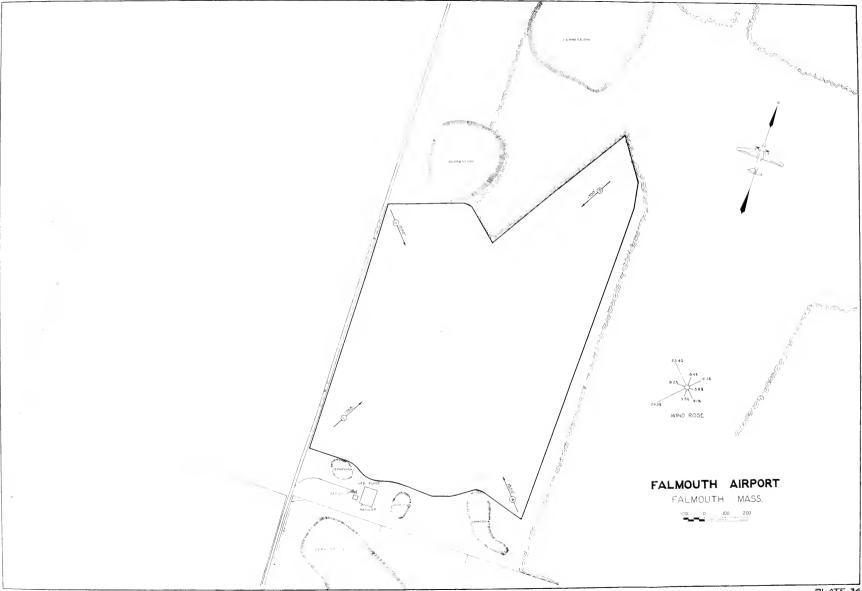
Cape Cod Seaplanes, Inc., has facilities of Coonamasett Lake for landing and taking-off. Used April to November. There are 3 yellow deck and float buoys and fuel at wharf.

	245	
	G.	



FALMOUTH AIRPORT
FALMOUTH MASS.





FRAMINGHAM. MASSACHUSETTS

1. NAME OF AIRPORT Framingham Airport CLASS Commercial

OWNER Mrs. S. Helen Gould, Framingham, Mass.

LESSEE Air Service, Inc., Framingham, Mass.

OPERATOR C. D. Andrews and C. Cameron, Framingham, Mass.

2. LOCATION

DISTANCE AND DIRECTION BY ROAD FROM CENTER OF CITY 1 mile South

LANDMARKS State Hospital grounds and farm adjacent

AIRLINE DISTANCE FROM CENTER OF CITY 3/4 mile

DISTANCE BY ROAD FROM POST OFFICE 1.4 miles

NAME AND LOCATION OF ROAD TO NEAREST TOWN Western Avenue borders field at hangar and leads to Framingham

LATITUDE 42°15'50" LONGITUDE 71°24'30"
ALTITUDE ABOVE SEA LEVEL 199 feet

DESCRIPTION

SHAPE Irregular TOTAL AREA OF FIELD 110.3 Acres

AREA AVAILABLE FOR LANDING AND TAKING-OFF 61.2 Acres

TYPE OF SOIL LOAM GRADIENT 1%

NATURE OF SURFACE Sod

IS IT AN ALL-WAY FIELD Yes IS LANDING AREA FENCED No

SURROUNDING PROPERTY OWNED OR CONTROLLED BY OWNER OR OPERATOR
Yes, to West and Southwest

IS THIS PROPERTY ZONED No.

IN WHAT DIRECTION IS LAND AVAILABLE FOR EXPANSION
West and Southwest from owner and Northwest and North from
present owners.

4. DRAINAGE

WHAT TYPE IS PRESENT DRAINAGE SYSTEM Natural

IS THIS ADEQUATE FOR ORDINARY WEATHER CONDITIONS Yes

DOES WATER STAND ON FIELD Yes, after severe storms

IS FIELD SUBJECT TO PERIODIC FLOODING Yes, in Spring

IS FIELD USEABLE DURING THAWS E. - W. landing area wet in Spring N. - S. available at all times

SERVICING---Day Yes Night No

REPAIRS Yes

REPAIR FACILITIES --- Engine Minor

Aircraft Minor

GASOLINE Yes OCTANE RATING 80% ARE SPARE PARTS AVAILABLE For minor repairs only HANGAR STORAGE CHARGES \$1.00 and up for 24 hour period

ADMINISTRATION BUILDING Yes REST ROOMS In adjacent house IS RAILROAD SIDING AT AIRPORT Yes, Boston & Albany Railroad TRANSPORTATION TO CITY By taxi RESTAURANT No

Yes

FIRST AID Yes FIRE APPARATUS

6. COMMUNICATION

TELEPHONE CONNECTION Yes

RADIO No

NEAREST BROADCASTING STATIONS WORL - Needham - 920 K.C.

ARE WEATHER REPORTS AVAILABLE Yes, by telephone from Boston AIRWAY TELETYPE No VISUAL TRAFFIC CONTROL No

7.	METEOROLOGICAL DATA	Annual	Winter	Summer
	PREVAILING WIND DIRECTION	14.	N.W.	W.
	PREVAILING WIND PERCENTAGE	19.4		
	RAINFALL AVERAGE, inches	44.53	15.67	14.75
	TEMPERATURE, maximum	100.0	71.0	100.0
	TEMPERATURE, minimum	-25.0	-25.0	30.0

REMARKS: Data obtained from U. S. Weather Bureau climatological reports and Meteorological Station at Clark University Worcester, Mass.

Climatological data taken over a 13 year period.

Climatological data taken over a 13 year period. Wind data taken over a 15 year period.

8. LANDING STRIPS

None

9. USUAL TAKE-OFF AND LANDING DIRECTIONS AND LENGTHS

N. - S. 2000'

E. - W. 1100'

N.E. - S.W. 1600'

S.E. - N.W. 1900'

None

11. APRONS AND TAXIWAYS

None

12. HANGARS

One metal hangar 60' x 70' with cinder floor

13. ADMINISTRATION OR OTHER BUILDINGS

Wooden office building 36' x 30' x 10'

14. OBSTRUCTIONS WITHIN A 20 TO 1 GLIDING ANGLE

- 50' Electric line poles on South border of airport
- 25' Poles and trees on East side of airport
- 30' Barn on North end of field

15. IS LANDING AREA TO BE KEPT CLEAR FOR USE AT ALL TIMES Yes

16. MARKING AND IDENTIFICATION

STANDARD CIRCLE Yes

NAME PAINTED ON HANGAR Framingham Airport

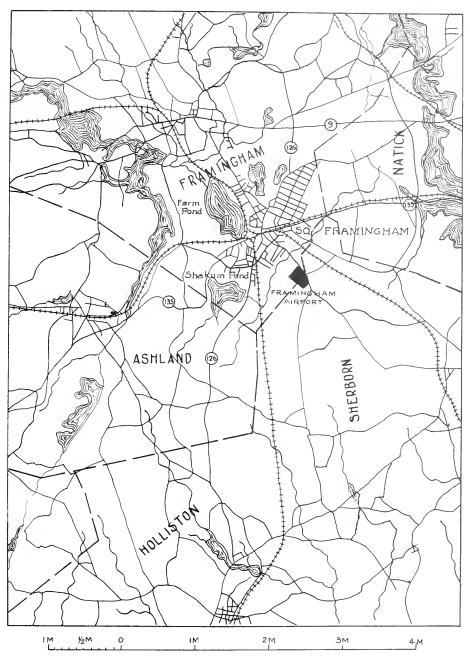
OTHER MARKINGS Direction arrow on roof of hangar

WIND DIRECTION INDICATOR 8' Sock ILLUMINATED No

ARE OBSTRUCTIONS MARKED No LIGHTED No

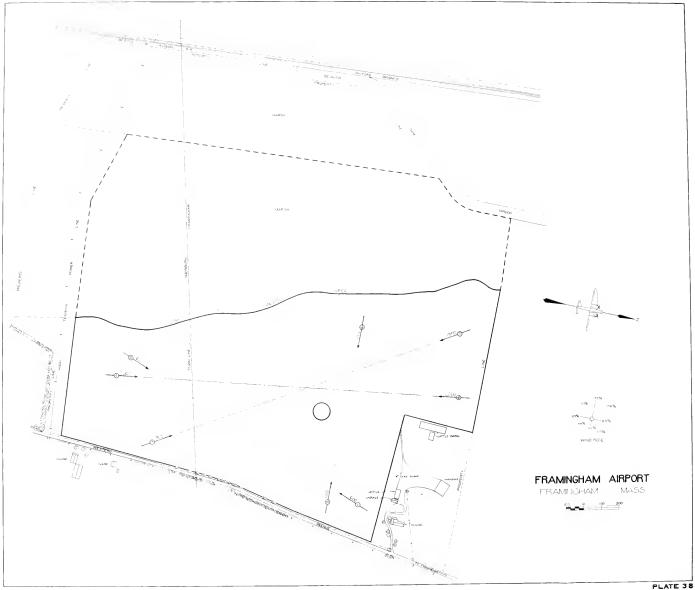
17. LIGHTING





FRAMINGHAM AIRPORT
FRAMINGHAM MASS





) <u>(</u> ;		

GRAFTON, MASSACHUSETTS

1. NAME OF AIRPORT Grafton Airport CLASS Commercial

OWNER Fleetwing, Inc., James P. Whittall, Worcester, Mass.

LESSEE Town of Grafton, Mass.

OPERATOR P. H. and M. C. Jennings, North Grafton, Mass.

2. LOCATION

DISTANCE AND DIRECTION BY ROAD FROM CENTER OF CITY $\frac{1}{2}$ mile South of North Grafton and $5\frac{1}{2}$ miles S. E. of Worcester

LANDMARKS South of Lake Quinsigamond

AIRLINE DISTANCE FROM CENTER OF CITY 1/8 mile South of North Grafton and 5 miles S. E. of Woroester

DISTANCE BY ROAD FROM POST OFFICE 1 mile to North Grafton Post Office

NAME AND LOCATION OF ROAD TO NEAREST TOWN Dead end road to airport from Route #122, Grafton to Worcester

LATITUDE 42°13'30" LONGITUDE 71°42'45" ALTITUDE ABOVE SEA LEVEL 450 feet

DESCRIPTION

SHAPE Very irregular

TOTAL AREA OF FIELD 104 Acres

AREA AVAILABLE FOR LANDING AND TAKING-OFF 69.5 Acres

TYPE OF SOIL Loam over clay GRADIENT 2% to West

NATURE OF SURFACE Sod

IS IT AN ALL-WAY FIELD Yes IS LANDING AREA FENCED Part

SURROUNDING PROPERTY OWNED OR CONTROLLED BY OWNER OR OPERATOR Yes, to S, S.W., N, and N.E.

IS THIS PROPERTY ZONED No

IN WHAT DIRECTION IS LAND AVAILABLE FOR EXPANSION To S, S.W., N and N.E.

4. DRAINAGE

WHAT TYPE IS FRESENT DRAINAGE SYSTEM Natural and artificial IS THIS ADEQUATE FOR ORDINARY WEATHER CONDITIONS Yes

DOES WATER STAND ON FIELD No

IS FIELD SUBJECT TO PERIODIC FLOODING No

IS FIELD USEABLE DURING THAWS Field very soft and unsafe during thaws.

SERVICE

Yes SERVICING --- Day

No Night

REPAIRS

Day only

REPAIR FACILITIES --- Engine

Minor only

Aircraft

Major and minor

GASOLINE Yes ARE SPARE PARTS AVAILABLE OCTANE RATING

Minor parts only

HANGAR STORAGE CHARGES

\$1.50

ADMINISTRATION BUILDING

REST ROOMS Yes RESTAURANT No No

IS RAILROAD SIDING AT AIRPORT No

TRANSPORTATION TO CITY By bus to Worcester, 20¢, 20 minutes

FIRST AID Yes FIRE APPARATUS

Summer

73%

6. COMMUNICATION

TELEPHONE CONNECTION

Yes

RADIO

None NEAREST BROADCASTING STATIONS

WORC - Worcester - 1280 K.C.

WTAG - Worcester - 580 K.C.

ARE WEATHER REPORTS AVAILABLE Yes, by telephone from Boston AIRWAY TELETYPE No

VISUAL TRAFFIC CONTROL

Winter

7. METEOROLOGICAL DATA Annual PREVAILING WIND DIRECTION PREVAILING WIND PERCENTAGE RAINFALL AVERAGE, inches TEMPERATURE, maximum TEMPERATURE, minimum

W.	N.W.	W.
19.4		
45.13	14.36	15.50
99.0	70.1	99.0
-20.0	-20.0	33.0

REMARKS: Data compiled with assistance of staff of Clark University Weather Station at Worcester and climatological reports of U. S. Weather Bureau. Climatological data taken over a 13 year period. Wind data taken over a 15 year period.

8. LANDING STRIPS None

9. USUAL TAKE-OFF AND LANDING DIRECTIONS AND LENGTHS

N - S 2600 ft.

SE - NW 3000 ft.

2300 ft. NE - SW

E - W 2300 ft.

None

11. APRONS AND TAXIWAYS

Gravel in front of hangars

12. HANGARS

One 60' x 70' Metal hangar with cement floor (includes office) hangar door 60' x 12'.

One 60' x 60' Metal hangar with cement floor hangar door 60' x 12'.

One 35' x 35' Metal hangar with cement floor hangar door 35' x 12'.

13. ADMINISTRATION OR OTHER BUILDINGS

Concession 25' x 25' x 15' Wooden building

14. OBSTRUCTIONS WITHIN A 20 TO 1 GLIDING ANGLE

50' Trees to South Hangars and 30' trees to North

15. IS LANDING AREA TO BE KEPT CLEAR FOR USE AT ALL TIMES YES

16. MARKING AND IDENTIFICATION

STANDARD CIRCLE No

NAME PAINTED ON HANGAR "Grafton Airport" and "Worcester Airport" on roof.

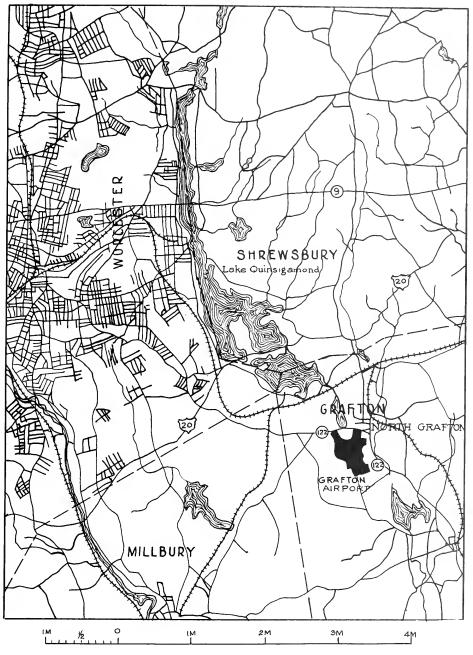
OTHER MARKINGS None

WIND DIRECTION INDICATOR 8' Sock ILLUMINATED No.

ARE OBSTRUCTIONS MARKED NO LIGHTED NO

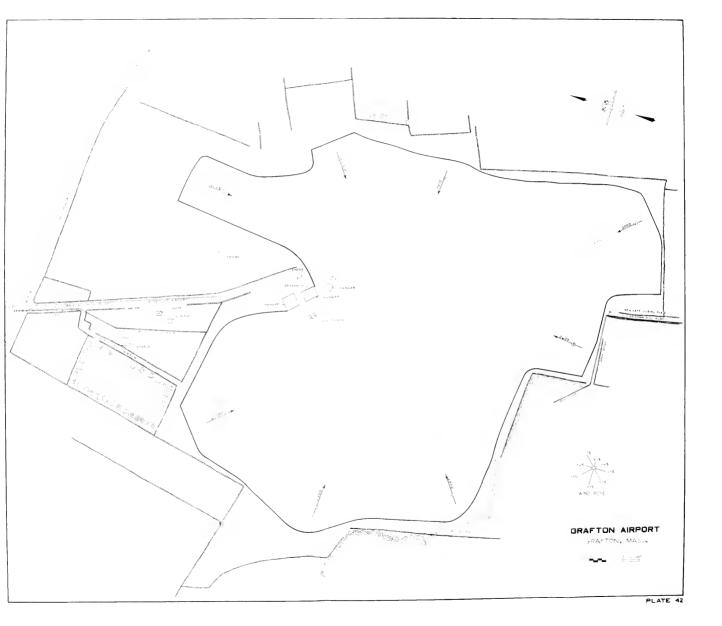
ARE LANDING STRIPS OR RUNWAYS LIGHTED No.

17. LIGHTING



LOCATION MAP

GRAFTON GRAFTON AIRPORT MASS





GREAT BARRINGTON, MASSACHUSETTS

1. NAME OF AIRPORT Great Barrington Airport CLASS Commercial

OWNER Andrew L. Somers, Monterey, Mass., and Brooklyn, N. Y.

LESSEE None

OPERATOR Gus Graf, Canaan, Connecticut

2. LOCATION

DISTANCE AND DIRECTION BY ROAD FROM CENTER OF CITY 3 miles West

LANDMARKS On State Road #69

AIRLINE DISTANCE FROM CENTER OF CITY 2 miles West

DISTANCE BY ROAD FROM POST OFFICE 3 miles

NAME AND LOCATION OF ROAD TO NEAREST TOWN Route #69 to Route #17 to Great Barrington

LATITUDE 42°11'22" LONGITUDE 73°24'00" ALTITUDE ABOVE SEA LEVEL 726 feet

DESCRIPTION

SHAPE Triangular DEMENSIONS E & W 2500 ft. N & S 1800 ft. N.E. & S.W. 2600 ft.

TOTAL AREA OF FIELD 63 Acres

AREA AVAILABLE FOR LANDING AND TAKING-OFF 47.9 Acres

TYPE OF SOIL Gravel GRADIENT Level

NATURE OF SURFACE Sod

IS IT AN ALL-WAY FIELD No IS LANDING AREA FENCED On S.E. side only.

SURROUNDING PROPERTY OWNED OR CONTROLLED BY OWNER OR OPERATOR No

IS THIS PROPERTY ZONED No

IN WHAT DIRECTION IS LAND AVAILABLE FOR EXPANSION To the East about 2800 ft.

L. DRAINAGE

WHAT TYPE IS PRESENT DRAINAGE SYSTEM Natural

IS THIS ADEQUATE FOR ORDINARY WEATHER CONDITIONS Yes

DOES WATER STAND ON FIELD Yes, in Spring only

IS FIELD SUBJECT TO PERIODIC FLOODING No

IS FIELD USEABLE DURING THAWS Yes

5. SERVICE

SERVICING---Day Yes Night No

REPAIRS Day only

REPAIR FACILITIES --- Engine Major (winter only) Minor (days)

Aircraft Major (winter only) Minor (days)

(Remarks: Student activity prevents Major repairs in Summer)

GASOLINE Yes OCTANE RATING 73%
ARE SPARE PARTS AVAILABLE Yes, limited
HANGAR STORAGE CHARGES \$1.00 and up

ADMINISTRATION BUILDING NO REST ROOMS YES RESTAURANT YES IS RAILROAD SIDING AT AIRPORT NO Summer only

TRANSPORTATION TO CITY Private car and taxi

FIRST AID Yes FIRE APPARATUS Yes

6. COMMUNICATION

TELEPHONE CONNECTION No

RADIO No

NEAREST BROADCASTING STATIONS WBZA - Springfield - 990 K.C. WSPR - Springfield - 1140 K.C.

ARE WEATHER REPORTS AVAILABLE Yes, from Albany and Springfield CO-OPERATIVE WEATHER BUREAU STATION Pittsfield, Mass.

AIRWAY TELETYPE No VISUAL TRAFFIC CONTROL No

7.	METEOROLOGICAL DATA	Annual	Winter	Summer
	PREVAILING WIND DIRECTION	W.	W.	W.
	PREVAILING WIND PERCENTAGE	32.2	26.1	39.0
	RAINFALL AVERAGE, inches	40.38	11.89	15.60
	TEMPERATURE, maximum	101.0	73.0	101.0
	TEMPERATURE, minimum	-23.0	-23.0	28.0

REMARKS: Data obtained from Cooperative Weather Bureau Station at Pittsfield, Mass., and climatological reports of the U. S. Weather Bureau. Climatological data taken over 10 year period. Wind data taken over 10 years.

8. LANDING STRIPS

None

9. USUAL TAKE-OFF AND LANDING DIRECTIONS AND LENGTHS

None

11. APRONS AND TAXIWAYS

None

12. HANGARS

One 60' x 60' Unheated metal hangar with dirt floor Hangar door 60'x 16'

13. ADMINISTRATION OR OTHER BUILDINGS

None

14. OBSTRUCTIONS WITHIN A 20 TO 1 GLIDING ANGLE

60' Trees on East 70' Trees on South

15. IS LANDING AREA TO BE KEPT CLEAR FOR USE AT ALL TIMES Yes

16. MARKING AND IDENTIFICATION

STANDARD CIRCLE Yes, but grown over

NAME PAINTED ON HANGAR "Berkshire Airways"

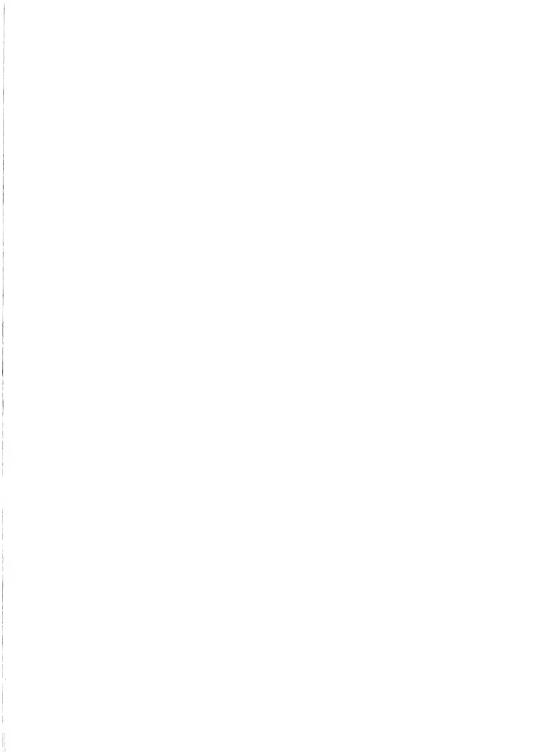
OTHER MARKINGS None

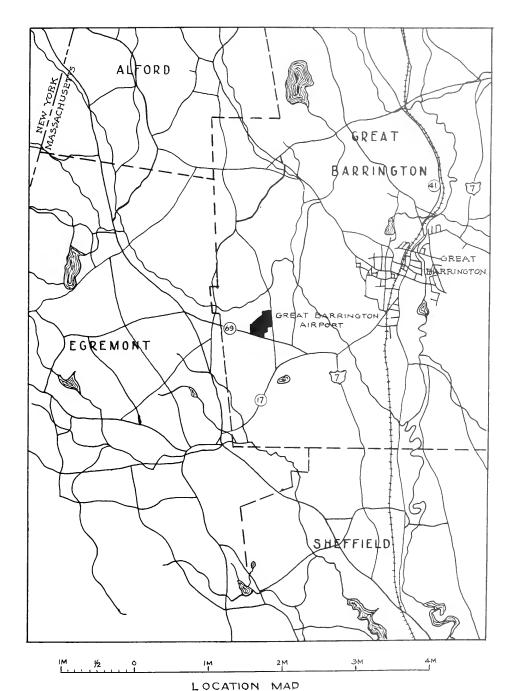
WIND DIRECTION INDICATOR 8' Sock ILLUMINATED

ARE OBSTRUCTIONS MARKED No LIGHTED No

ARE LANDING STRIPS OR RUNWAYS LIGHTED No

17. LIGHTING

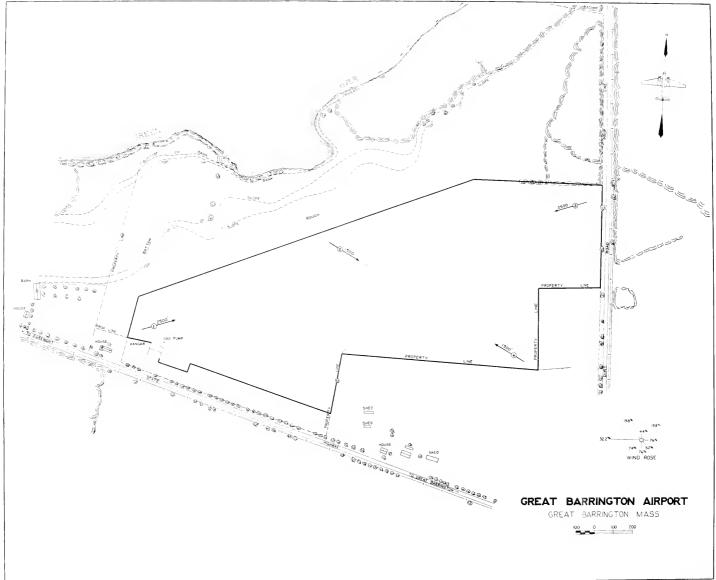




GREAT BARRINGTON AIRPORT

GREAT BARRINGTON MASS

PLATE 43



1			

HANOVER, MASSACHUSETTS

1. NAME OF AIRPORT Clark Airport CLASS Commercial

OWNER W. M. Clark, National Fireworks Co., W. Hanover, Mass.

LESSEE None

OPERATOR East Coast Airways, Winter Street, W. Hanover, Mass. (F. J. Bedell)

2. LOCATION

DISTANCE AND DIRECTION BY ROAD FROM CENTER OF CITY L miles West

LANDMARKS

164! Watertower painted aluminum with yellow bands $\frac{1}{2}$ mile N.W. 164! Watertower painted aluminum with yellow bands $\frac{1}{4}$ miles N.E.

AIRLINE DISTANCE FROM CENTER OF CITY 3 miles

DISTANCE BY ROAD FROM POST OFFICE 4 miles

NAME AND LOCATION OF ROAD TO NEAREST TOWN

Winter Street is adjacent to airport and leads North to West Hanover and then East to Hanover.

LATITUDE 42°06'00" LONGITUDE 70°52'00" ALTITUDE ABOVE SEA LEVEL 74 feet

DESCRIPTION

SHAPE Irregular

TOTAL AREA OF FIELD 49.5 Acres

AREA AVAILABLE FOR LANDING AND TAKING-OFF 36.3 Agres

TYPE OF SOIL Sand, loam and gravel GRADIENT Level

NATURE OF SURFACE Sod

IS IT AN ALL-WAY FIELD Yes IS LANDING AREA FENCED Yes

SURROUNDING PROPERTY OWNED OR CONTROLLED BY OWNER OR OPERATOR Yes

IS THIS PROPERTY ZONED No

IN WHAT DIRECTION IS LAND AVAILABLE FOR EXPANSION TO E and S.E.

4. DRAINAGE

WHAT TYPE IS PRESENT DRAINAGE SYSTEM Natural

IS THIS ADEQUATE FOR ORDINARY WEATHER CONDITIONS Yes

DOES WATER STAND ON FIELD No FIELD USEABLE DURING THAWS Yes

IS FIELD SUBJECT TO PERIODIC FLOODING No

5. SERVICE

SERVICING---Day Yes Night

No

REPAIRS On call

REPAIR FACILITIES --- Engine Aircraft Major and minor Major and minor

GASOLINE Yes OCTANE RATING

73%

ARE SPARE PARTS AVAILABLE No

HANGAR STORAGE CHARGES \$10.00 to \$15.00 per month. \$1.00 per night

RESTAURANT No

ADMINISTRATION BUILDING Yes REST ROOMS Yes IS RATLROAD SIDING AT AIRPORT

No

TRANSPORTATION TO CITY

Furnished on call

FIRST AID Yes

FIRE APPARATUS

Yes

COMMUNICATION

TELEPHONE CONNECTION Yes

RADIO East Coast Airways WAQX 278 K.C. All day and 7 to 9 P. M. 3105 K.C. All day and 7 to 9 P.M.

Air traffic receiving and transmitting range 50 miles.

NEAREST BROADCASTING STATIONS WEEI - Boston - 590 K.C.

WNAC - Boston - 1230 K.C.

WAAB - Boston - 1110 K.C. ARE WEATHER REPORTS AVAILABLE Yes, by telephone from Boston

AIRWAY TELETYPE No VISUAL TRAFFIC CONTROL

7. METEOROLOGICAL DATA Annual Winter Summer PREVAILING WIND DIRECTION W. PREVAILING WIND PERCENTAGE 22.2 21.2 RAINFALL AVERAGE, inches 40.85 13.19 TEMPERATURE, maximum 71.0 104.0 104.0 TEMPERATURE, minimum

REMARKS: Wind data as taken from Weather Station at Blue Hills 15 miles N.W. of airport.

Data compiled from information furnished by office of City Engineer, Brockton, and climatological reports of the U. S. Weather Bureau.

Climatological data taken over a 13 year period.

Wind data taken over a 10 year period.

LANDING STRIPS None

9. USUAL TAKE-OFF AND LANDING DIRECTIONS AND LENGTHS

N.E. - S.W. 2100 ft.

N. - S. 1700 ft.

N.W. - S.E. 1300 ft. 1200 ft. E. - W.

None

11. APRONS AND TAXIWAYS

None

12. HANGARS

One 60'x40' Metal hangar with concrete floor, hangar door 60'x12' One 40'x40' Metal hangar with concrete floor, hangar door 40'x12' One 30'x30' Wooden hangar with dirt floor, hangar door 30'x12'

2 Metal hangars built on concrete underpinnings. Hangars unheated.

13. ADMINISTRATION OR OTHER BUILDINGS

Office building 32'x24'x25' Wooden construction (2 story frame house includes living quarters and radio office.)

14. OBSTRUCTIONS WITHIN A 20 TO 1 GLIDING ANGLE

60' Trees to N.E.

30' Hill between N.E.-S.W. and N.-S. take-off directions

50' Trees to South

Two 50' antenna towers at rear of hangars.

15. IS LANDING AREA TO BE KEPT CLEAR FOR USE AT ALL TIMES Yes

16. MARKING AND IDENTIFICATION

STANDARD CIRCLE No

NAME PAINTED ON HANGAR "Clark Airport, Hanover, Mass."

OTHER MARKINGS "SHELL" 6' red letters on aluminum background on South side of wooden hangar.

"EAST COAST AIRWAYS" 30 inch black letters on yellow over doors on metal hangars.

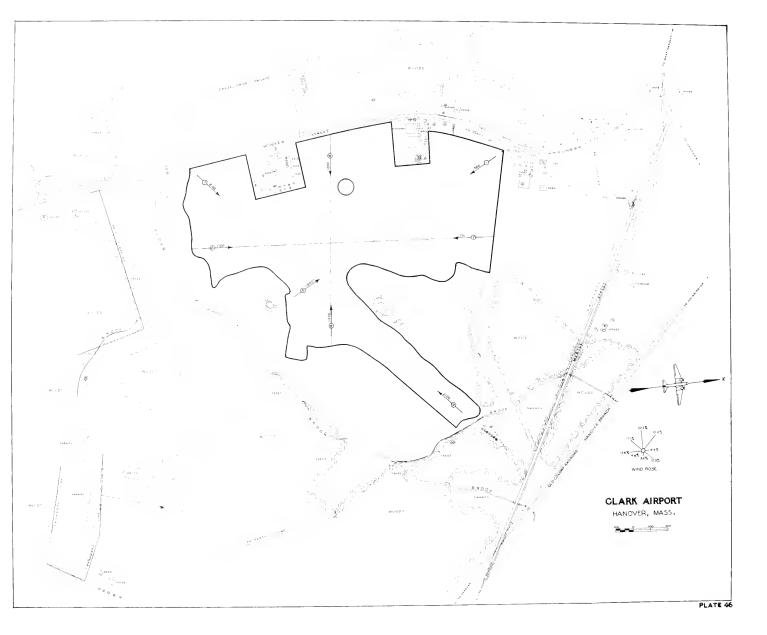
WIND DIRECTION INDICATOR 8' Sock ILLUMINATED No

ARE OBSTRUCTIONS MARKED No LIGHTED No

ARE LANDING STRIPS OR RUNWAYS LIGHTED No

17. LIGHTING

		4	
4.			



HAVERHILL, MASSACHUSETTS

1. NAME OF AIRPORT Haverhill Airport CLASS Commercial

OWNER E. L. Walker, 34 Pleasant Street, Bradford, Mass.

LESSEE F. P. Johnson, 17 Lake Avenue, Melrose, Mass., and George Monoquian, Haverhill, Mass.

OPERATOR F. P. Johnson, 17 Lake Avenue, Melrose, Mass., and George Monoquian, Haverhill, Mass.

2. LOCATION

DISTANCE AND DIRECTION BY ROAD FROM CENTER OF CITY 2 miles N.E.

LANDMARKS Reservoir 1/2 mile South. "Haverhill" and arrow on gas storage tank in Haverhill

AIRLINE DISTANCE FROM CENTER OF CITY 2 miles N.E.

DISTANCE BY ROAD FROM POST OFFICE 2 miles

NAME AND LOCATION OF ROAD TO NEAREST TOWN Newton Road connecting with Route #110 to Haverhill on West side of airport.

LATITUDE 42°48'15" LONGITUDE 70°03'42" ALTITUDE ABOVE SEA LEVEL 125 feet

3. DESCRIPTION

SHAPE Irregular

TOTAL AREA OF FIELD 52.6 Acres

AREA AVAILABLE FOR LANDING AND TAKING-OFF 25.6 Acres

TYPE OF SOIL Sandy loam GRADIENT Level

NATURE OF SURFACE Sod

IS IT AN ALL-WAY FIELD Yes IS LANDING AREA FENCED No

SURROUNDING PROPERTY OWNED OR CONTROLLED BY OWNER OR OPERATOR No

IS THIS PROPERTY ZONED No

IN WHAT DIRECTION IS LAND AVAILABLE FOR EXPANSION S.E. 1000 ft. and South 2000 ft.

4. DRAINAGE

WHAT TYPE IS PRESENT DRAINAGE SYSTEM Natural

IS THIS ADEQUATE FOR ORDINARY WEATHER CONDITIONS Yes

DOES WATER STAND ON FIELD No.

IS FIELD SUBJECT TO PERIODIC FLOODING No

IS FIELD USEABLE DURING THAWS Yes

SERVICE

SERVICING---Day Yes Night On call

REPAIRS Days only

REPAIR FACILITIES --- Engine Minor

Aircraft Major and minor

GASOLINE Yes OCTANE RATING 73%

ARE SPARE PARTS AVAILABLE No

HANGAR STORAGE CHARGES No facilities

ADMINISTRATION BUILDING Yes REST ROOMS Yes RESTAURANT NO

TRANSPORTATION TO CITY By taxi 50¢

FIRST AID Yes FIRE APPARATUS Yes

COMMUNICATION

TELEPHONE CONNECTION Yes

RADIO None

NEAREST BROADCASTING STATIONS WLLH - Lowell - 1370 K.C.

WLAW - Lawrence 680 K.C.

ARE WEATHER REPORTS AVAILABLE Yes, by telephone from Boston AIRWAY TELETYPE No VISUAL TRAFFIC CONTROL No

7.	METEOROLOGICAL DATA	Anı	nual	Winter	Summer
	PREVAILING WIND DIRECTION	N.W.	S.W.	N.W.	S.W.
	PREVAILING WIND PERCENTAGE	27.8	25.0	36.8	28.0
	RAINFALL AVERAGE, inches	3'	7•99		
	TEMPERATURE, maximum	10	1.0	71.0	104.0
	TEMPERATURE, minimum	-19	9.0	-19.0	31.0

REMARKS: Data obtained from Weather Station, City Hall, Haverhill, and climatological reports from U. S. Weather Bureau.

Climatological data taken over an 8 year period.

Wind data taken over an 11 year period.

8. LANDING STRIPS

None

9. USUAL TAKE-OFF AND LANDING DIRECTIONS AND LENGTHS

N. - S. 1350 ft.

E. - W. 1000 ft.

S.E. - N.W. 1800 ft.

None

11. APRONS AND TAXIWAYS

None

12. HANGARS

None

13. ADMINISTRATION OR OTHER BUILDINGS

Office 15' x 10' x $7\frac{1}{2}$ ' Wood construction

14. OBSTRUCTIONS WITHIN A 20 TO 1 GLIDING ANGLE

100' Hill to N. E.

60' Trees to S.E.

90' Chimney to South

95' Hill to S.W.

25' Power line to N.W.

15. IS LANDING AREA TO BE KEPT CLEAR FOR USE AT ALL TIMES NO

16. MARKING AND IDENTIFICATION

STANDARD CIRCLE NO

NAME PAINTED ON HANGAR No

OTHER MARKINGS None

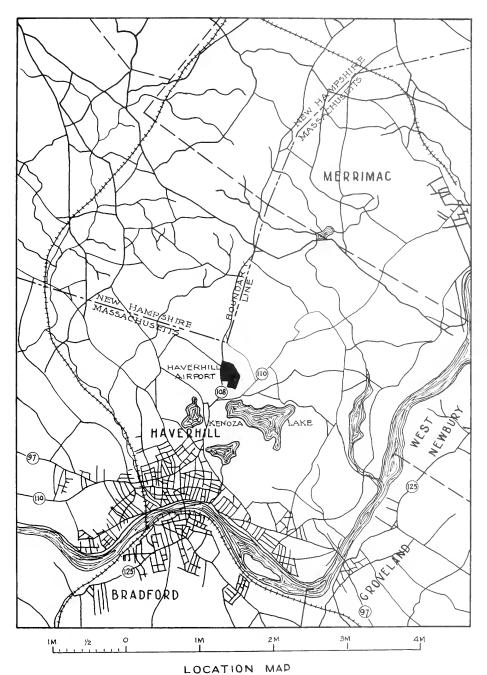
WIND DIRECTION INDICATOR 8' Sock ILLUMINATED No

ARE OBSTRUCTIONS MARKED No LIGHTED No

ARE LANDING STRIPS OR RUNWAYS LIGHTED No

17. LIGHTING

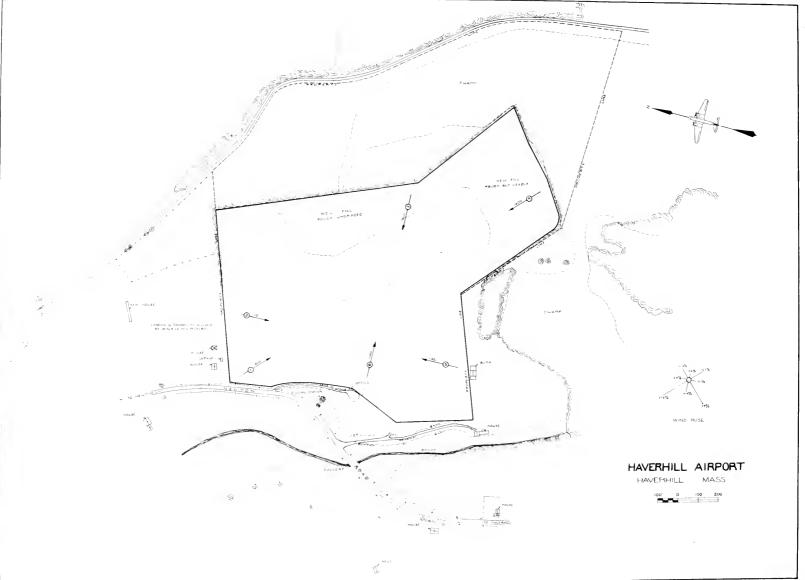
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MAVERHILL HAVERHILL

AIRPORT MASS

	4.	



*			

HINGHAM, MASSACHUSETTS

1. NAME OF AIRPORT Bayside Airport CLASS Commercial

OWNER Estate of Peter B. Bradley, Hingham, Mass.

LESSEE Bayside Flying Service, Inc., Hingham, Mass.

OPERATOR Bayside Flying Service, Inc., Hingham, Mass.

2. LOCATION

DISTANCE AND DIRECTION BY ROAD FROM CENTER OF CITY 12 miles N.W.

LANDMARKS Back River on North boundary of field. Bradley Fertiliser Plant 1 mile N.E.

AIRLINE DISTANCE FROM CENTER OF CITY 12 miles

DISTANCE BY ROAD FROM POST OFFICE 2 miles

NAME AND LOCATION OF ROAD TO NEAREST TOWN Airport is on Lincoln Street, (Route 3A) to Hingham.

LATITUDE 42°15'00" LONGITUDE 70°55'00"
ALTITUDE ABOVE SEA LEVEL 25 feet

3. DESCRIPTION

SHAPE Irregular

TOTAL AREA OF FIELD 17.9 Acres

AREA AVAILABLE FOR LANDING AND TAKING-OFF 37.4 Acres

TYPE OF SOIL Loam and gravel GRADIENT Level

NATURE OF SURFACE Sod

IS IT AN ALL-WAY FIELD Yes IS LANDING AREA FENCED No

SURROUNDING PROPERTY OWNED OR CONTROLLED BY OWNER OR OPERATOR Yes

IS THIS PROPERTY ZONED No

IN WHAT DIRECTION IS LAND AVAILABLE FOR EXPANSION TO N.E. and East, 5000 feet

4. DRAINAGE

WHAT TYPE IS PRESENT DRAINAGE SYSTEM Natural

IS THIS ADEQUATE FOR ORDINARY WEATHER CONDITIONS Yes

DOES WATER STAND ON FIELD No

IS FIELD SUBJECT TO PERIODIC FLOODING No

IS FIELD USEABLE DURING THAWS Yes

5. SERVICE

Yes Night No SERVICING -- Day

REPAIRS Yes, major and minor

Yes REPAIR FACILITIES -- Engine

> Aircraft Yes

GASOLINE Yes OCTANE RATING 73% Yes

ARE SPARE PARTS AVAILABLE

HANGAR STORAGE CHARGES \$12.50 per month and up

ADMINISTRATION BUILDING Yes REST ROOMS Yes RESTAURANT No IS RAILROAD SIDING AT AIRPORT No

TRANSPORTATION TO CITY By bus service

FIRE APPARATUS Yes FIRST AID Yes

COMMUNICATION

TELEPHONE CONNECTION Yes Receiving set only

NEAREST BROADCASTING STATIONS

WEEI - Boston - 590 K.C. WNAC - Boston - 1230 K.C.

WAAB - Boston - 1110 K.C.

ARE WEATHER REPORTS AVAILABLE Yes, by telephone from Boston VISUAL TRAFFIC CONTROL AIRWAY TELETYPE No

7.	METEOROLOGICAL DATA	Annı	al	Winter	Summer
	PREVAILING WIND DIRECTION	W.	N.W.	N.W	S.W.
	PREVAILING WIND PERCENTAGE	16.0	16.7		
	RAINFALL AVERAGE, inches	42.	.00	19.78	25.51
	TEMPERATURE, maximum	103	0	80.0	103.0
	TEMPERATURE, minimum	-18	0	-18.0	40.0

REMARKS: Data obtained from records of the U. S. Weather Bureau, Boston.

Climatological data taken over a 13 year period.

Wind data taken over a 7 year period.

LANDING STRIPS None

USUAL TAKE-OFF AND LANDING DIRECTIONS AND LENGTHS

S.E. - N.W. 2150', S.W. - N.E. 1050', E. - W. 1350'

Unlimited area for seaplanes on Back River, West and North of field.

None

11. APRONS AND TAXIVAYS

None

12. HANGARS

One 50' x 100' Wooden hangar One 40' x 80' Wooden hangar

Sheltered basin for seaplanes North and West of field

13. ADMINISTRATION OR OTHER BUILDINGS

One wooden structure 14' x 26'

14. OBSTRUCTIONS WITHIN A 20 TO 1 GLIDING ANGLE

40' Trees on N.E. and East sides of airport 30' Telephone poles on South side of airport

15. IS LANDING AREA TO BE KEPT CLEAR FOR USE AT ALL TIMES Yes

16. MARKING AND IDENTIFICATION

STANDARD CIRCLE No

NAME PAINTED ON HANGAR "Bayside Airport"

OTHER MARKINGS None

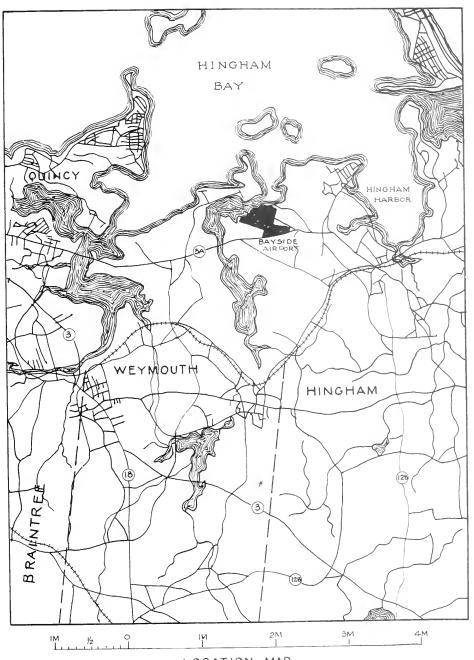
WIND DIRECTION INDICATOR 15' Wind Sock ILLUMINATED No

ARE OBSTRUCTIONS MARKED No LIGHTED No

ARE LANDING STRIPS OR RUNWAYS LIGHTED No

17. LIGHTING



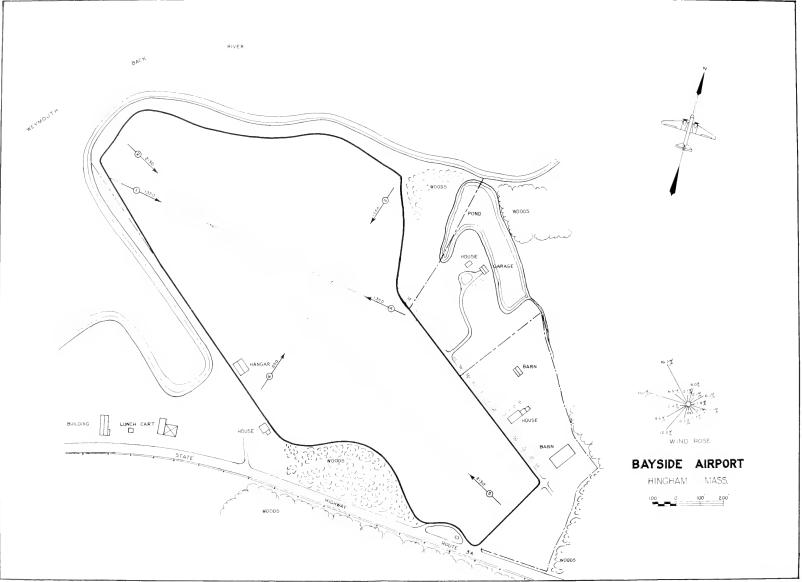


LOCATION MAP

BAYSIDE HINGHAM

AIRPORT MASS







LEOMINSTER. MASSACHUSETTS

1. NAME OF AIRPORT Fitchburg & Leominster Airport CLASS Commercial

OWNER Thomas Crocker, 3rd, Fitchburg, Mass.

LESSEE Cities of Leominster and Fitchburg for 5 years to 1939

OPERATOR Fitchburg and Leominster Airways, Inc. Joseph Fluet, Leominster, Mass.

2. LOCATION

DISTANCE AND DIRECTION BY ROAD FROM CENTER OF CITY $2\frac{1}{2}$ miles North of Leominster and $2\frac{1}{4}$ miles S.E. of Fitchburg

LANDMARKS N.Y.N.H. & H. R.R. to West. B. & M. R.R. to East.

Nashua River to West.

AIRLINE DISTANCE FROM CENTER OF CITY 2 miles from either Leominster or Fitchburg

DISTANCE BY ROAD FROM POST OFFICE 2 miles from either Leominster or Fitchburg

NAME AND LOCATION OF ROAD TO NEAREST TOWN Crawford Street to Leominster and Fitchburg to East of airport

LATITUDE 42°33°25" LONGITUDE 71°45°35" ALTITUDE ABOVE SEA LEVEL 300 feet

3. DESCRIPTION

SHAPE Irregular

TOTAL AREA OF FIELD 124 Acres

AREA AVAILABLE FOR LANDING AND TAKING-OFF 73 Acres

TYPE OF SOIL Gravel over clay GRADIENT Level

NATURE OF SURFACE Grass and weeds

IS IT AN ALL-WAY FIELD NO IS LANDING AREA FENCED No

SURROUNDING PROPERTY OWNED OR CONTROLLED BY OWNER OR OPERATOR To the S.E. and N.W.

IS THIS PROPERTY ZONED No

IN WHAT DIRECTION IS LAND AVAILABLE FOR EXPANSION To the S.E. and N.W. about 1000 feet

L. DRAINAGE

WHAT TYPE IS PRESENT DRAINAGE SYSTEM Natural, also tile and stone drains

IS THIS ADEQUATE FOR ORDINARY WEATHER CONDITIONS Yes

IS FIELD SUBJECT TO PERIODIC FLOODING No, except in extreme floods, as in 1936

IS FIELD USEABLE DURING THAWS No

SERVICING--Day Yes Night By appointment

REPAIRS Days. Nights by appointment

REPAIR FACILITIES --- Engine Major and minor

Aircraft Major and minor

GASOLINE Yes OCTANE RATING 73% ARE SPARE PARTS AVAILABLE Yes

ARE SPARE PARTS AVAILABLE YES
HANGAR STORAGE CHARGES \$1.00 and up

ADMINISTRATION BUILDING Yes REST ROOMS Yes RESTAURANT NO
IS RAILROAD SIDING AT AIRPORT NO
TRANSPORTATION TO CITY By taxi, 50% to Leominster, 10 minutes
By taxi, 75% to Fitchburg, 10 minutes

FIRST AID Yes FIRE APPARATUS Yes

6. COMMUNICATION

TELEPHONE CONNECTION Yes

RADIO No

NEAREST BROADCASTING STATIONS WTAG - Worcester - 590 K.C. WORC - Worcester - 1280 K.C.

ARE WEATHER REPORTS AVAILABLE
AIRWAY TELETYPE
No
VISUAL TRAFFIC CONTROL
No

7.	METEOROLOGICAL DATA	Annual	Winter	Summer
	PREVAILING WIND DIRECTION	N.W.	N.W.	N.W.
	PREVAILING WIND PERCENTAGE	43.5	51.3	35.4
	RAINFALL AVERAGE, inches	43.61	15.45	14.97
	TEMPERATURE, maximum	98.0	73.0	98.0
	TEMPERATURE, minimum	-16.0	-16.0	29.0

REMARKS: Data obtained from Fitchburg Sewage Disposal Plant,
Lumenburg, Mass., and from climatological reports of
U. S. Weather Bureau.
Climatological data taken over a 13 year period.
Wind data taken over a 10 year period.

8. LANDING STRIPS

None

9. USUAL TAKE-OFF AND LANDING DIRECTIONS AND LENGTHS

N.W. - S.E. 2200 ft.

N. - S. 2600 ft.

10. RUNWAYS

None

11. APRONS AND TAXIWAYS

None

12. HANGARS

Two 60' x 60' steel hangars with cement floors.

Hangar doors 60' x 11'. Hangars unheated.

13. ADMINISTRATION OR OTHER BUILDINGS

Office building 18' x 12' x 10' Wooden construction

14. OBSTRUCTIONS WITHIN A 20 TO 1 GLIDING ANGLE

Hills, trees and chimneys, 50 to 150 feet high, surrounding field.

15. IS LANDING AREA TO BE KEPT CLEAR FOR USE AT ALL TIMES

Yes, except for heavy snow

16. MARKING AND IDENTIFICATION

STANDARD CIRCLE Yes

NAME PAINTED ON HANGAR "Fitchburg-Leominster Airport" on hangar roof.

OTHER MARKINGS Usual landing area limits are lined by cones

WIND DIRECTION INDICATOR Two 8' Socks ILLUMINATED No

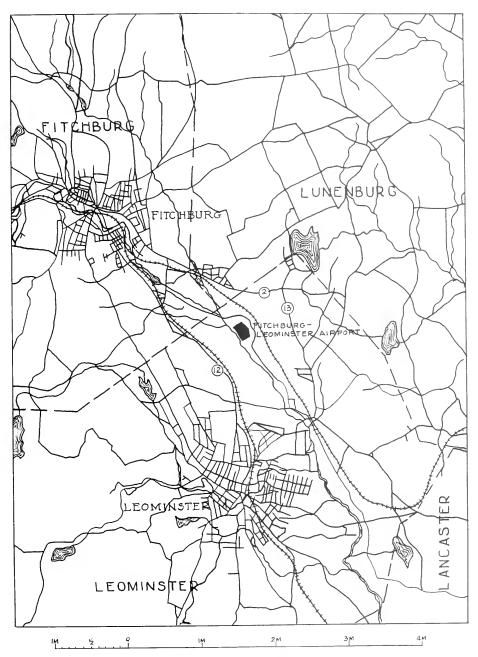
ARE OBSTRUCTIONS MARKED No LIGHTED No

ARE LANDING STRIPS OR RUNWAYS LIGHTED No

17. LIGHTING

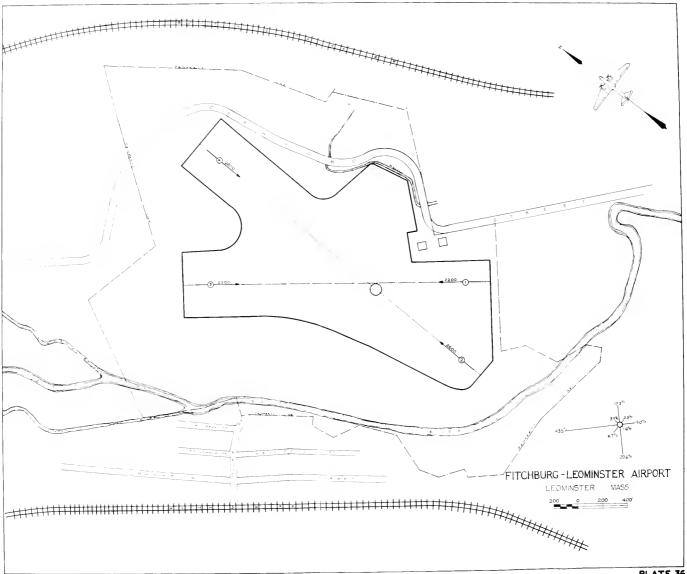
None





FITCHBURG-LEOMINSTER AIRPORT LEOMINSTER MASS

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MANSFIELD. MASSACHUSETTS

1. NAME OF AIRPORT Boltz Field CLASS Commercial

OWNER Fred Boltz, 600 South Main Street, Mansfield, Mass.

LESSEE None

OPERATOR Not in operation at present

2. LOCATION

DISTANCE AND DIRECTION BY ROAD FROM CENTER OF CITY 2 miles S.E.

LANDMARKS Single track railroad, 500 feet East of field.

Reservoir ½ mile South of field.

AIRLINE DISTANCE FROM CENTER OF CITY 1 mile

DISTANCE BY ROAD FROM POST OFFICE 2 miles

NAME AND LOCATION OF ROAD TO NEAREST TOWN

Fruit Street at North edge of field, leads to Rt. 140 to Mansfield

LATITUDE 4200'15" LONGITUDE 71012'00"
ALTITUDE ABOVE SEA LEVEL 110 feet

3. DESCRIPTION

SHAPE Irregular

TOTAL AREA OF FIELD 65 Acres

AREA AVAILABLE FOR LANDING AND TAKING-OFF 42 Acres

TYPE OF SOIL Sandy loam GRADIENT Level

NATURE OF SURFACE Part sod and part under cultivation

IS IT AN ALL-WAY FIELD Yes IS LANDING AREA FENCED Partly SURROUNDING PROPERTY OWNED OR CONTROLLED BY OWNER OR OPERATOR Yes. to South

IS THIS PROPERTY ZONED No.

IN WHAT DIRECTION IS LAND AVAILABLE FOR EXPANSION

To the E 300', S 2000', W 1500', N.W. 800' and S.E. 1200'.

4. DRAINAGE

WHAT TYPE IS PRESENT DRAINAGE SYSTEM Natural

IS THIS ADEQUATE FOR ORDINARY WEATHER CONDITIONS Yes

DOES WATER STAND ON FIELD No

IS FIELD SUBJECT TO PERIODIC FLOODING No.

IS FIELD USEABLE DURING THAWS

Yes, except that part of field which is plowed.

SERVICING -- Day No Night No

REPAIRS

No

REPAIR FACILITIES --- Engine

No

No

GASOLINE Yes, in town OCTANE RATING

78%

ARE SPARE PARTS AVAILABLE

No

Two barns formerly HANGAR STORAGE CHARGES No hangars available. used.

ADMINISTRATION BUILDING No REST ROOMS No IS RAILROAD SIDING AT AIRPORT No

Aircraft

Private car or taxi

FIRST AID

No

FIRE APPARATUS

RESTAURANT

No

No

COMMUNICATION

TELEPHONE CONNECTION

TRANSPORTATION TO CITY

No

RADIO

No NEAREST BROADCASTING STATIONS

No

- 1230 K.C. WNAC - Boston

WNBH - New Bedford - 1310 K.C.

WEEI - Boston

- 590 K.C.

ARE WEATHER REPORTS AVAILABLE Yes, by telephone from Boston AIRWAY TELETYPE

VISUAL TRAFFIC CONTROL

7.	METEOROLOGICAL DATA	Annual		Winter	Summer
	PREVAILING WIND DIRECTION	s.w.	N.W.	N.W.	s.W.
	PREVAILING WIND PERCENTAGE	21.2	20.4	27.4	26.3
	RAINFALL AVERAGE, inches				
	TEMPERATURE, maximum	9	8.0	73.0	98.0
	TEMPERATURE, minimum	-2	4.0	-24.0	24.0

REMARKS: Data obtained from office of Taunton Water Works and climatological reports of U. S. Weather Bureau. Climatological data taken over an 11 year period. Wind data taken over a 10 year period.

LANDING STRIPS

None

USUAL TAKE-OFF AND LANDING DIRECTIONS AND LENGTHS

N. - S. 1600'

E. - W. 1300'

N.W.-S.E. 1500'

10. RU	NWAYS
--------	-------

None

11. APRONS AND TAXIWAYS

None

12. HANGARS

None Two barns were used for storage. Space for one plane in each barn.

13. ADMINISTRATION OR OTHER BUILDINGS

Two wooden barns 50' x 40' In fair condition

14. OBSTRUCTIONS WITHIN A 20 TO 1 GLIDING ANGLE

Two 50' barns at N.W. border of field

40' Telephone pole line at North border of field

50' Trees at N.E. border of field

50' Trees at W. border of field

15. IS LANDING AREA TO BE KEPT CLEAR FOR USE AT ALL TIMES No

16. MARKING AND IDENTIFICATION

STANDARD CIRCLE No.

NAME PAINTED ON HANGAR None

OTHER MARKINGS None

WIND DIRECTION INDICATOR No ILLUMINATED No

ARE OBSTRUCTIONS MARKED No LIGHTED No

ARE LANDING STRIPS OR RUNWAYS LIGHTED No

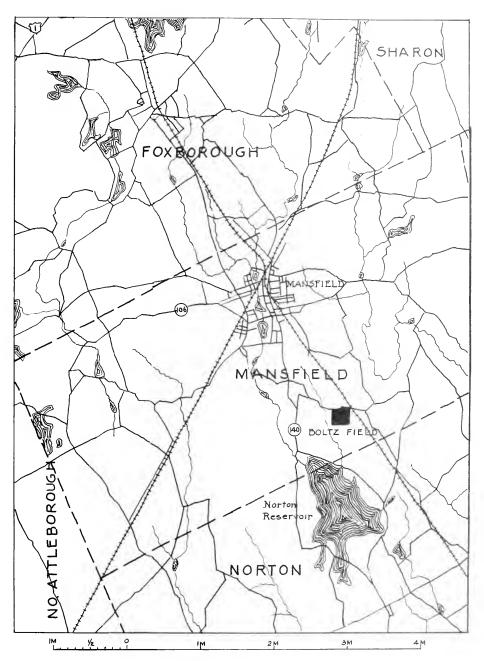
17. LIGHTING

None

18. SEAPLANE BASE

It is possible for seaplanes to land on Reservoir, South of field.

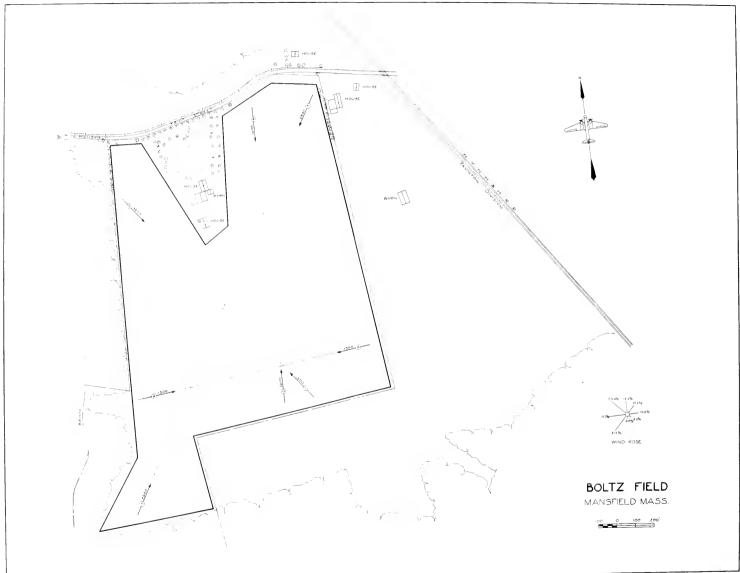




BOLTZ FIELD

MANSFIELD MASS





•		

MARLBOROUGH, MASSACHUSETTS

1. NAME OF AIRPORT Marlboro Airport CLASS Commercial

OWNER Mrs. Gomezes, Farny Road, Marlborough, Mass.

LESSEE Charles H. Spaulding, 15 Gates Avenue, Hudson, Mass.

OPERATOR Charles H. Spaulding, 15 Gates Avenue, Hudson, Mass.

2. LOCATION

DISTANCE AND DIRECTION BY ROAD FROM CENTER OF CITY 23 miles East

LANDMARKS Metropolitan Reservoir is South of airport

AIRLINE DISTANCE FROM CENTER OF CITY $1\frac{1}{4}$ miles

DISTANCE BY ROAD FROM POST OFFICE 2 miles

NAME AND LOCATION OF ROAD TO NEAREST TOWN Farm road adjacent to airport, connecting with Route #20 to Marlborough

LATITUDE 42°20'20" LONGITUDE 71°31'00" ALTITUDE ABOVE SEA LEVEL 255 feet

DESCRIPTION

SHAPE Irregular

TOTAL AREA OF FIELD 22 Acres

AREA AVAILABLE FOR LANDING AND TAKING-OFF 18 Acres

TYPE OF SOIL Loam over gravel GRADIENT .75% S.W. - N.E.

NATURE OF SURFACE Sod

IS IT AN ALL-WAY FIELD No IS LANDING AREA FENCED No

SURROUNDING PROPERTY OWNED OR CONTROLLED BY OWNER OR OPERATOR No

IS THIS PROPERTY ZONED No

IN WHAT DIRECTION IS LAND AVAILABLE FOR EXPANSION Limited by terrain.

4. DRAINAGE

WHAT TYPE IS PRESENT DRAINAGE SYSTEM Natural

IS THIS ADEQUATE FOR ORDINARY WEATHER CONDITIONS Yes

DOES WATER STAND ON FIELD NO FIELD USEABLE DURING THAWS YES

IS FIELD SUBJECT TO PERIODIC FLOODING No

SERVICING---Day

Yes

Night

No

REPAIRS

Minor repairs available day only

REPAIR FACILITIES --- Engine

Minor only

Aircraft

None

GASOLINE Yes

No

OCTANE RATING

73%

ARE SPARE PARTS AVAILABLE HANGAR STORAGE CHARGES

\$1.50 per night

REST ROOMS Yes RESTAURANT

IS RAILROAD SIDING AT AIRPORT No TRANSPORTATION TO CITY

ADMINISTRATION BUILDING Office only

By bus and taxi service

No

FIRST AID

Yes

FIRE APPARATUS

Yes

6. COMMUNICATION

TELEPHONE CONNECTION

Yes

WORC - Worcester - 1280 K.C.

NEAREST BROADCASTING STATIONS

WTAG - Worcester - 580 K.C.

ARE WEATHER REPORTS AVAILABLE Yes, by telephone from Boston AIRWAY TELETYPE No

VISUAL TRAFFIC CONTROL No

7•	METEOROLOGICAL DATA	Annual	Winter	Summer
	PREVAILING WIND DIRECTION	W	N.W.	W.
	PREVAILING WIND PERCENTAGE	19.4		
	RAINFALL AVERAGE, inches	45.13	14.36	15.50
	TEMPERATURE, maximum	99.0	70.0	99.0
	TEMPERATURE, minimum	-20.0	-20.0	33.0

REMARKS:

Meteorological data obtained from Clark University, Worcester, and climatological reports of the U. S.

Weather Bureau.

Climatological data taken over a period of 13 years.

Wind data taken over a period of 15 years.

LANDING STRIPS

None

9. USUAL TAKE-OFF AND LANDING DIRECTIONS AND LENGTHS

N.W. - S.E. 1640' x 300'

N.E. - S.W. 1330' x 300'

10. RUNWAYS

None

11. APRONS AND TAXIWAYS

None

12. HANGARS

One Concrete Hangar 45' x 45' with cement floor. Unheated.

13. ADMINISTRATION OR OTHER BUILDINGS

Two metal garages 12' x 20'
One concrete office building 10' x 10'
One wooden outdoor lavatory 6' x 18'

1/1. OBSTRUCTIONS WITHIN A 20 TO 1 GLIDING ANGLE

House 30' high located 200' N.W. of field in line with N.W.-S.E. landing direction.
Pole lines 25' high across S.W. end of N.E.-S.W. landing direction.

Hill to East and scattered buildings to West of airport.

15. IS LANDING AREA TO BE KEPT CLEAR FOR USE AT ALL TIMES

Not in winter

16. MARKING AND IDENTIFICATION

STANDARD CIRCLE Grass circle

NAME PAINTED ON HANGAR Marlboro on roof

OTHER MARKINGS None

WIND DIRECTION INDICATOR 6' Wind Cone ILLUMINATED No

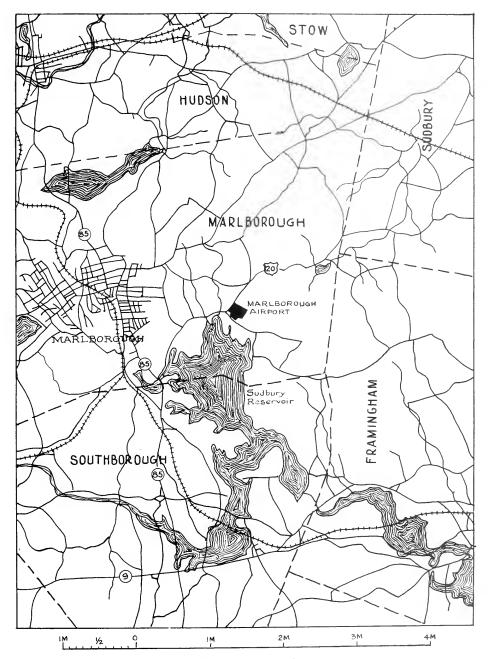
ARE OBSTRUCTIONS MARKED No LIGHTED No

ARE LANDING STRIPS OR RUNWAYS LIGHTED No

17. LIGHTING

None



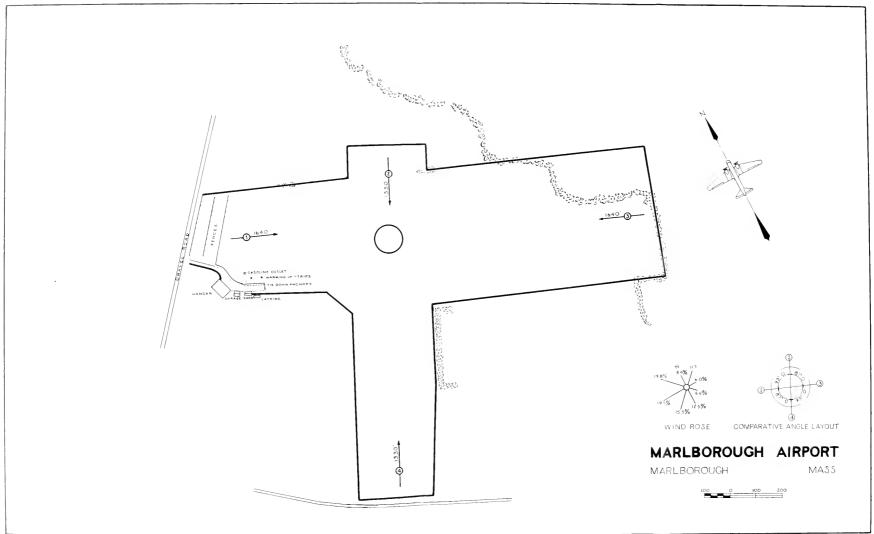


LOCATION MAP

MARLBOROUGH AIRPORT

MARLBOROUGH MASS







MEDFIELD, MASSACHUSETTS

1. NAME OF AIRPORT Fairacres Field CLASS Emergency Landing Field

OWNER Eva H. Lewis, Elm Street, Medfield, Mass.

LESSEE None

OPERATOR None

2. LOCATION

DISTANCE AND DIRECTION BY ROAD FROM CENTER OF CITY 14 miles S.E.

LANDMARKS Airport is North of and adjacent to N.Y.N.H. & H. R.R. right of way

AIRLINE DISTANCE FROM CENTER OF CITY 1 mile

DISTANCE BY ROAD FROM POST OFFICE 12 miles

NAME AND LOCATION OF ROAD TO NEAREST TOWN Elm Street to South Street to Medfield

LATITUDE 42°10'25" LONGITUDE 70°17'15" ALTITUDE ABOVE SEA LEVEL 160 feet

DESCRIPTION

SHAPE Irregular

TOTAL AREA OF FIELD 39 Acres

AREA AVAILABLE FOR LANDING AND TAKING-OFF 34.5 Acres

TYPE OF SOIL LORM GRADIENT Level

NATURE OF SURFACE Sod

IS IT AN ALL-WAY FIELD Yes IS LANDING AREA FENCED No

IS SURROUNDING PROPERTY OWNED OR CONTROLLED BY OWNER OR OPERATOR Yes, on North side and part of East side

IS THIS PROPERTY ZONED No

IN WHAT DIRECTION IS LAND AVAILABLE FOR EXPANSION North and East

4. DRAINAGE

WHAT TYPE IS PRESENT DRAINAGE SYSTEM Natural

IS THIS ADEQUATE FOR ORDINARY WEATHER CONDITIONS Yes

DOES WATER STAND ON FIELD No

IS FIELD SUBJECT TO PERIODIC FLOODING No

IS FIELD USEABLE DURING THAWS Yes

SERVICING--Day No Night No

REPAIRS No

REPAIR FACILITIES---Engine No

Aircraft No

GASOLINE None

ARE SPARE PARTS AVAILABLE No

HANGAR STORAGE CHARGES No hangars

ADMINISTRATION BUILDING None REST ROOMS None RESTAURANT None IS RAILROAD SIDING AT AIRPORT No TRANSPORTATION TO CITY By private car or taxi, on call

FIRST AID No

FIRE APPARATUS

No

6. COMMUNICATION

TELEPHONE CONNECTION In owner's house

RADIO No

NEAREST BROADCASTING STATIONS WBZ - Boston - 990 K.C. WBEI - Boston - 590 K.C.

ARE WEATHER REPORTS AVAILABLE By telephone from Boston AIRWAY TELETYPE No VISUAL TRAFFIC CONTROL No

Winter Summer Annual 7. METEOROLOGICAL DATA PREVAILING WIND DIRECTION N.W. W. N.W. PREVAILING WIND PERCENTAGE 40.85 RAINFALL AVERAGE, inches 104.0 TEMPERATURE, maximum 104.0 71.0 -19.0 -19.0 TEMPERATURE, minimum

REMARKS: Data obtained from Climatological Reports of U. S. Weather Bureau.

Climatological data taken over a 13 year period. Wind data taken over a 10 year period from weather station at Blue Hill 10 miles E.N.E. of field.

- 8. LANDING STRIPS None
- 9. USUAL TAKE-OFF and LANDING DIRECTIONS AND LENGTHS

N.W. - S.E. 1950'

N.E. - S.W. 1000'

E. - W. 2000'

10. RUNWAYS

None

11. APRONS AND TAXIWAYS

None

12. HANGARS

None

13. ADMINISTRATION OR OTHER BUILDINGS

None except owner's house

14. OBSTRUCTIONS WITHIN A 20 TO 1 GLIDING ANGLE

30 foot trees on S.W., South and East Railroad telegraph line adjacent on South border of field

15. IS LANDING AREA TO BE KEPT CLEAR FOR USE AT ALL TIMES

Not in winter

16. MARKING AND IDENTIFICATION

STANDARD CIRCLE No

NAME PAINTED ON HANGAR No

OTHER MARKINGS None

WIND DIRECTION INDICATOR None ILLUMINATED No

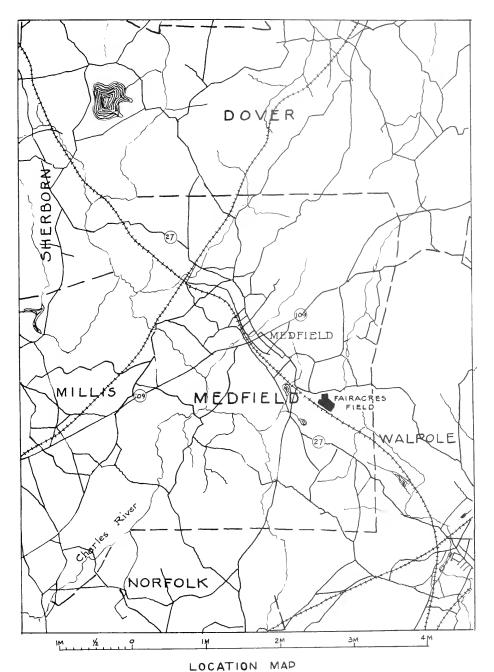
ARE OBSTRUCTIONS MARKED No LIGHTED No

ARE LANDING STRIPS OR RUNWAYS LIGHTED No

17. LIGHTING

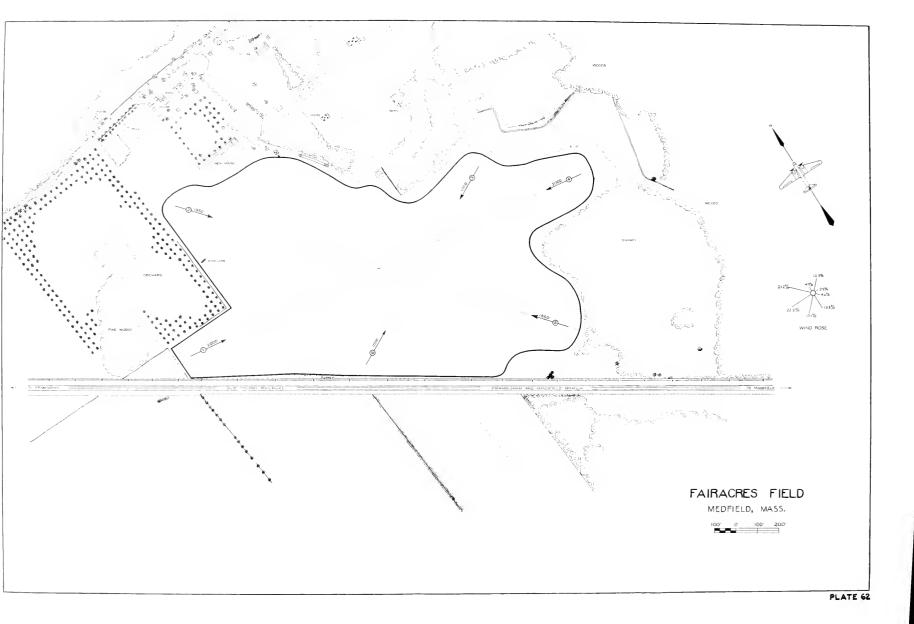
None

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FAIRACRES MEDFIELD FIELD







MENDON, MASSACHUSETTS

1. NAME OF AIRPORT Mendon Airport CLASS Commercial

OWNER F. A. Millis, Mendon Airport, Mendon, Mass.

LESSEE None

OPERATOR Sabatino Ludovici, Mendon Airport, Mendon, Mass.

2. LOCATION

DISTANCE AND DIRECTION BY ROAD FROM CENTER OF CITY & mile South

LANDMARKS Lake Nipmuck is 1/2 mile S. W. of airport

AIRLINE DISTANCE FROM CENTER OF CITY & mile to Mendon

DISTANCE BY ROAD FROM POST OFFICE & mile to Mendon Post Office

NAME AND LOCATION OF ROAD TO NEAREST TOWN Airport is at intersection of Emerson Street and Route #126 to Mendon

LATITUDE 42°06'00" LONGITUDE 71°33'42"
ALTITUDE ABOVE SEA LEVEL 450 feet

3. DESCRIPTION

SHAPE Irregular

TOTAL AREA OF FIELD 77.0 Acres

AREA AVAILABLE FOR LANDING AND TAKING-OFF 34.5 Acres

TYPE OF SOIL Loam and clay GRADIENT 1.6% N and S. 2.25% E and W.

NATURE OF SURFACE Sod

IS IT AN ALL-WAY FIELD Yes IS LANDING AREA FENCED Yes, on N.W.

SURROUNDING PROPERTY OWNED OR CONTROLLED BY OWNER OR OPERATOR No

IS THIS PROPERTY ZONED No

IN WHAT DIRECTION IS LAND AVAILABLE FOR EXPANSION S 600°, SW 950°
4. DRAINAGE

WHAT TYPE IS PRESENT DRAINAGE SYSTEM 2000 ft. of stone drains

IS THIS ADEQUATE FOR ORDINARY WEATHER CONDITIONS

Yes

DOES WATER STAND ON FIELD Yes, in South corner after heavy rain

IS FIELD SUBJECT TO PERIODIC FLOODING Yes, during heavy rainfall

IS FIELD USEABLE DURING THAWS

SERVICING---Day On call Night On call

REPAIRS Day and night on call

REPAIR FACILITIES --- Engine Minor only

Aircraft None

GASOLINE Yes OCTANE RATING 73%

ARE SPARE PARTS AVAILABLE No

HANGAR STORAGE CHARGES \$1.00 per day

ADMINISTRATION BUILDING Yes REST ROOMS NO RESTAURANT NO IS RAILROAD SIDING AT AIRPORT No

TRANSPORTATION TO CITY By bus or taxi

FIRST AID Yes FIRE APPARATUS Yes

6. CONSTRUCTION

TELEPHONE CONNECTION Yes

RADIO None

NEAREST BROADCASTING STATIONS WTAG - Worcester - 580 K.C.

WORC - Worcester - 1280 K.C.

ARE WEATHER REPORTS AVAILABLE Yes, by telephone from Boston WEATHER EUREAU STATION At airport

AIRWAY TELETYPE NO VISUAL TRAFFIC CONTROL NO

7.	METEOROLOGICAL DATA	Annual	Winter	Summer
	PREVAILING WIND DIRECTION	W.	N.W.	W.
	PREVAILING WIND PERCENTAGE	19.4		
	RAINFALL AVERAGE, inches	45.13	14.36	15.50
	TEMPERATURE, maximum	99.0	70.1	99.0
	TEMPERATURE, minimum	-20.0	-20.0	33.0

FEMARKS: Airway weather observer at Mendon Airport makes observations as to ceiling, visibility, wind direction and velocity, temperature, humidity and barometric pressure. These reports are transmitted to the Airway Weather Bureau Station at East Boston Airport. Climatological data taken over a 13 year period. Wind data taken over a 15 year period.

8. LANDING STRIPS None

9. USUAL TAKE-OFF AND LANDING DIRECTIONS AND LENGTHS

N - S 1500 ft. E - W 1100 ft. WSW - ENE 900 ft. NW - SE 1800 ft. WNW - ESE 1400 ft.

None

11. APRONS AND TAXIWAYS

None

12. HANGARS

One 110' x 36' Wooden hangar with metal roof and wood floor Unheated. Hangar door 10'8" x 48'

13. ADMINISTRATION OR OTHER BUILDINGS

Office Building 18' x 18' Two stories
Repair Shop 28' x 28' x 28' Wooden construction

14. OBSTRUCTIONS WITHIN A 20 TO 1 GLIDING ANGLE

27' Telephone and electric pole lines on Route #126.

Trees and house at West and M.W. edges of airport.

30. Electric light pole line and 40° trees on Emerson Street, Fast and M. F. of airport.

Stone wall for 500' along East side of N.W.-S.E. direction at S.E. end.

Brush and sorub growth across S.E. end and running for 200' along West side of N.W.-S.E. direction.

Brush at South end of N.-S. direction also running for 200'

along West side of same.

Brush and 30' trees along S.W. side of airport.

15. IS LANDING AREA TO BE KEPT CLEAR FOR USE AT ALL TIMES

Except in winter

16. MARKING AND IDENTIFICATION

STANDARD CIRCLE No

MAME PAINTED ON HANGAR "Mendon" also North arrow on roof

OTHER MARKINGS None

VIND DIRECTION INDICATOR Sock ILLUMINATED No

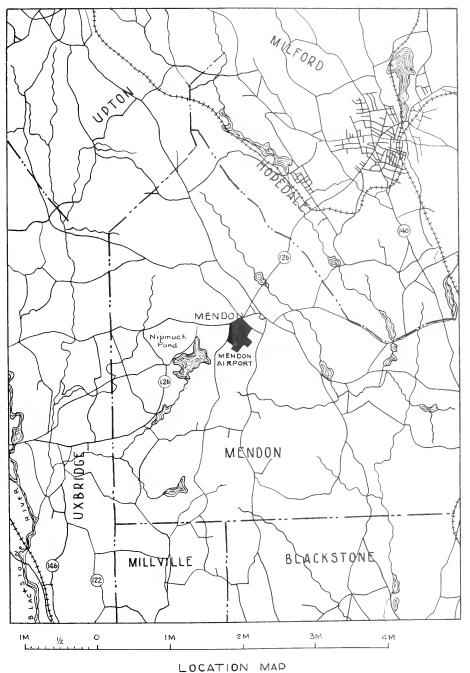
ARE OBSTPUCTIONS MARKED No LIGHTED No

ARE LANDING STRIPS OR RUNWAYS LIGHTED No

I. LIGHTING

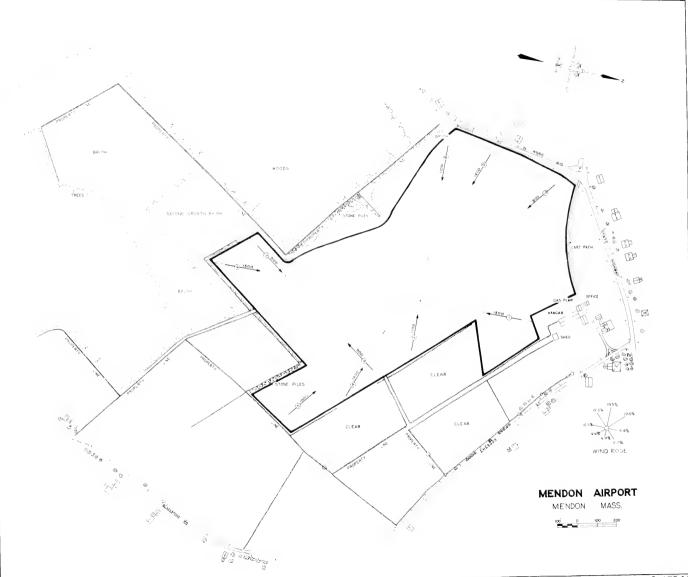
Hone





MENDON MENDON AIRPORT

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MONTAGUE, MASSACHUSETTS

1. NAME OF AIRPORT Turners Falls Airport CLASS Municipal

OWNER Town of Montague, Mass.

LESSEE None

OPERATOR Town of Montague, Mass.

2. LOCATION

DISTANCE AND DIRECTION BY ROAD FROM CENTER OF CITY 1 3/4 miles S.E. of Turners Falls section of Montague, and 32 miles East of Greenfield

LANDMARKS Bend in Connecticut River to N.W.

AIRLINE DISTANCE FROM CENTER OF CITY 1 3/4 miles to Turners Falls
DISTANCE BY ROAD FROM POST OFFICE 2 miles to Turners Falls Post
Office

NAME AND LOCATION OF ROAD TO NEAREST TOWN Route 2A to Millers Falls and Turners Falls on South of field

LATITUDE 42°35'40" LONGITUDE 72°32'00" ALTITUDE ABOVE SEA LEVEL 350 feet

DESCRIPTION

SHAPE Very irregular

TOTAL AREA OF FIELD 227 Acres

AREA AVAILABLE FOR LANDING AND TAKING-OFF 133 Aores

TYPE OF SOIL Sandy loam GRADIENT Level

NATURE OF SURFACE Rolled sod

IS IT AN ALL-WAY FIELD Yes IS LANDING AREA FENCED No

SURROUNDING PROPERTY OWNED OR CONTROLLED BY OWNER OR OPERATOR No

IS THIS PROPERTY ZONED No

IN WHAT DIRECTION IS LAND AVAILABLE FOR EXPANSION None

4. DRAINAGE

WHAT TYPE IS PRESENT DRAINAGE SYSTEM Natural and some artificial

IS THIS ADEQUATE FOR ORDINARY WEATHER CONDITIONS Yes

DOES WATER STAND ON FIELD No

IS FIELD SUBJECT TO PERIODIC FLOODING No

IS FIELD USEABLE DURING THAWS YE

5. SERVICE This airport is under construction and will have service when completed.

SERVICING --- Day

Night

REPAIRS

REPAIR FACILITIES --- Engine

Aircraft

73% GASOLINE Yes, in Turners Falls OCTANE RATING ARE SPARE PARTS AVAILABLE None HANGAR STORAGE CHARGES No storage to date ADMINISTRATION BUILDING No REST ROOMS NO RESTAURANT No IS RAILROAD SIDING AT AIRPORT No

TRANSPORTATION TO CITY None

FIRST AID None FIRE APPARATUS None

COLMUNICATION

TELEPHONE CONNECTION No RADIO No

NEAREST BROADCASTING STATIONS WBZA - Springfield - 990 K.C. WSPR - Springfield - 1140 K.C.

ARE WEATHER REPORTS AVAILABLE Yes, by telephone from Boston and Springfield

AIRWAY TELETYPE No VISUAL TRAFFIC CONTROL No

7.	METEOROLOGICAL DATA	Annual	Winter	Summer
	PREVAILING WIND DIRECTION PREVAILING WIND PERCENTAGE	N.W.	N.W.	S.W.
	RAINFALL AVERAGE, inches TEMPERATURE, maximum	36.79	11.60	11,49
	TEMPERATURE, minimum	103.0 -22.0	72.0 -22.0	28.0

REMARKS: Data furnished by City Engineer at Montague, Mass. Climatological data taken over a 13 year period. Wind data taken over unknown period.

LANDING STRIPS

Rolled sod. One N-S 500 x 3500 ft. One E-W 500 x 3000 ft. Rolled sod. 500 x 3250 ft. One NE-SW Rolled sod.

There is one 2200 ft. diameter all-way circle in center.

USUAL TAKE-OFF AND LANDING DIRECTIONS AND LENGTHS

2200 ft. diameter all-way graded and rolled sod circle in center of airport.

None

11. APRONS AND TAXIWAYS

None. To be constructed later.

12. HANGARS

None. Proposed.

13. ADMINISTRATION OR OTHER BUILDINGS

None. Proposed.

14. OBSTRUCTIONS WITHIN A 20 TO 1 GLIDING ANGLE

266 ft. hill one mile East of airport, 616 ft. above sea level

15. IS LANDING AREA TO BE KEPT CLEAR FOR USE AT ALL TIMES Yes

16. MARKING AND IDENTIFICATION

STANDARD CIRCLE No

NAME PAINTED ON HANGAR To be painted on roof

OTHER MARKINGS None

WIND DIRECTION INDICATOR Tee ILLUMINATED No.

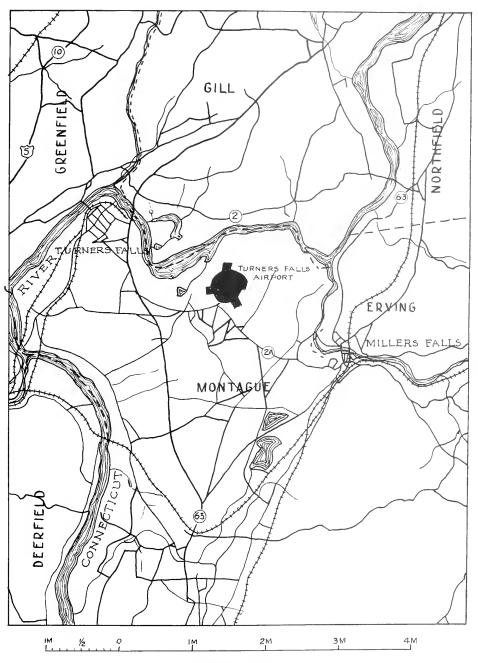
ARE OBSTRUCTIONS MARKED No LIGHTED No

ARE LANDING STRIPS OR RUNWAYS LIGHTED No.

17. LIGHTING

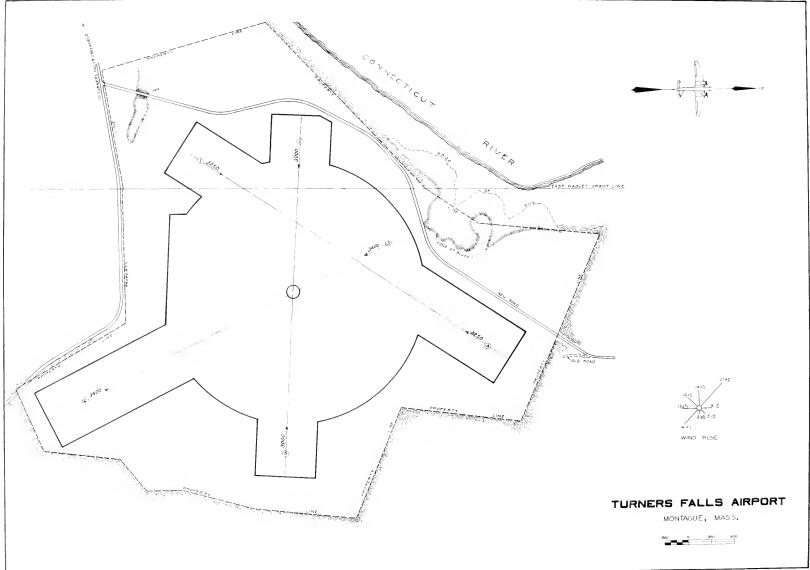
Complete lighting system is planned for use when construction is completed.





LOCATION MAP
TURNERS FALLS AIRPORT
MONTAGUE MASS







NANTUCKET, MASSACHUSETTS

1. NAME OF AIRPORT Nobadeer Airport CLASS Commercial

OWNER Alexander Hagner, Broadview, Warrenton, Virginia

LESSEE None

OPERATOR Alexander Hagner, Broadview, Warrenton, Virginia (Managed by David Robb, Nantucket, Mass. in Summer)

2. LOCATION

DISTANCE AND DIRECTION BY ROAD FROM CENTER OF CITY 2 miles S.E.

LANDMARKS Two radio towers one mile South of field

AIRLINE DISTANCE FROM CENTER OF CITY 2 miles to Nantucket

DISTANCE BY ROAD FROM POST OFFICE 22 miles to Nantucket Post Office

NAME AND LOCATION OF ROAD TO NEAREST TOWN State highway is 3500' North of airport and leads to Nantucket

LATITUDE 41°15'24" LONGITUDE 70°04'00" ALTITUDE ABOVE SEA LEVEL 15 feet

3. DESCRIPTION

SHAPE Irregular

TOTAL AREA OF FIELD 72 Acres

AREA AVAILABLE FOR LANDING AND TAKING-OFF 45.5 Acres

TYPE OF SOIL Sand GRADIENT Level

NATURE OF SURFACE Sod

IS IT AN ALL-WAY FIELD Yes IS LANDING AREA FENCED Yes, to North and West

SURROUNDING PROPERTY OWNED OR CONTROLLED BY OWNER OR OPERATOR No

IS THIS PROPERTY ZONED No

IN WHAT DIRECTION IS LAND AVAILABLE FOR EXPANSION 1600' East on land owned by airport, plus 1000' by fill, 1000' West by fill and 1000' South by grading

4. DRAINAGE

WHAT TYPE IS PRESENT DRAINAGE SYSTEM Natural

IS THIS ADEQUATE FOR ORDINARY WEATHER CONDITIONS Yes

DOES WATER STAND ON FIELD No

IS FIELD SUBJECT TO PERIODIC FLOODING No

IS FIELD USEABLE DURING THAWS Yes

5. SERVICE

SERVICING --- Day Yes, during summer only Night No

REPAIRS Minor repairs only during summer

REPAIR FACILITIES --- Engine Minor repairs only during summer

Aircraft Minor repairs only during summer

GASOLINE Yes OCTANE RATING 73 and 80%
ARE SPARE PARTS AVAILABLE No
HANGAR STORAGE CHARGES Occupied. Outside storage \$1.50 per night

ADMINISTRATION BUILDING No REST ROOMS No RESTAURANT NO IS RAILROAD SIDING AT AIRPORT NO TRANSPORTATION TO CITY By taxi

FIRST AID Yes FIRE APPARATUS Yes

COMMUNICATION

TELEPHONE CONNECTION Yes

RADIO No

NEAREST BROADCASTING STATIONS WNBH - New Bedford - 1310 K.C.

ARE WEATHER REPORTS AVAILABLE Yes, from Boston or Newark, N.J. AIRWAY TELETYPE No VISUAL TRAFFIC CONTROL No

7.	METEOROLOGICAL DATA	Annual	Winter	Summer
	PREVAILING WIND DIRECTION	S.W.	₩.	S.W.
	PREVAILING WIND PERCENTAGE	23.5	24.8	30.5
	RAINFALL AVERAGE, inches	43.17	15.10	13.05
	TEMPERATURE, maximum	92.0	68.0	92.0
	TEMPERATURE, minimum	-6.0	-6.0	47.0

REMARKS: Data obtained from U. S. Weather Bureau Station at Nantucket.

Climatological data: Annual taken over an 80 year period, winter and summer taken over a 13 year period.

Wind data taken over a 10 year period.

8. LANDING STRIPS

None

9. USUAL TAKE-OFF AND LANDING DIRECTIONS AND LENGTHS

N. - S. 2250 ft. N.E. - S.W. 1800 ft. E. - W. 1100 ft.

N.W. - S.E. 1500 ft.

None

11. APRONS AND TAXIWAYS

None

12. HANGARS

One hangar, wooden structure, 30° x 50° New 100° x 100° hangar planned to be erected in the Spring of 1938.

13. ADMINISTRATION OR OTHER BUILDINGS None

Administration building to be erected. At present, use is made of old bus body.

14. OBSTRUCTIONS WITHIN A 20 TO 1 GLIDING ANGLE

50' Telephone pole line and house, barn and silo at N.W. end of airport.

15. IS LANDING AREA TO BE KEPT CLEAR FOR USE AT ALL TIMES Yes

16. MARKING AND IDENTIFICATION

STANDARD CIRCLE Yes

NAME PAINTED ON HANGAR "Nobadeer"

OTHER MARKINGS "Nobadeer" on barn roof

WIND DIRECTION INDICATOR 8' Sock ILLUMINATED Yes

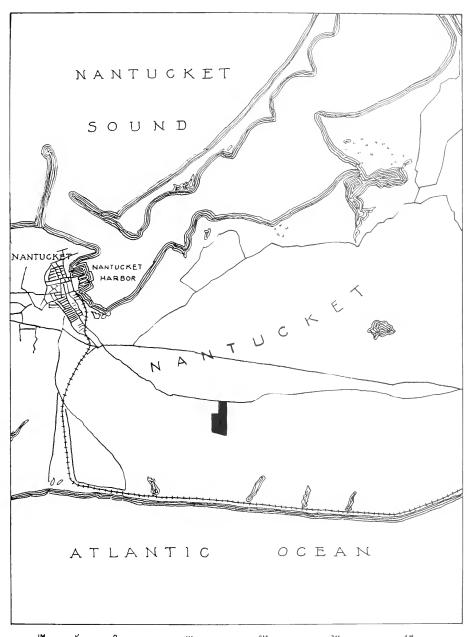
ARE OBSTRUCTIONS MARKED Yes LIGHTED Red obstruction light on roof of house

ARE LANDING STRIPS OR RUNWAYS LIGHTED No

17. LIGHTING

None, except hangar is floodlighted.





LOCATION MAP

NOBADEER AI

AIRPORT





NEW BEDFORD, MASSACHUSETTS

NAME OF SEAPLANE OR AMPHIBIAN BASE New Bedford Seaplane Base (PROPOSED)

CLASS

Municipal

OWNER

City of New Bedford, Mass.

LESSEE

None

OPERATOR

City of New Bedford, Mass.

2. DESCRIPTION OF SEAPLANE OR AMPHIBIAN BASE OR ANCHORAGE

DIRECTION AND DISTANCE TO NEAREST CITY & mile E. of New Bedford

41°39'00" LATITUDE

LONGITUDE 70°55'30"

BODY OF WATER IN WHICH LOCATED Acushnet River, New Bedford Harbor

LANDING AND TAKE-OFF AREA Acushnet River is 3900' wide at Seaplane Base and it is 2 miles to New Bedford Harbor and Buzzards Bay. Proposed to

times

DEPTH OF WATER: HIGH TIDE 33.6 ft. LOW TIDE 30.0 ft.

CURRENT Tide

OBSTRUCTIONS City of New Bedford buildings

PERIOD BASE IS NOT AVAILABLE FOR USE:

ICE PERIOD

FOG PERIOD

FACILITIES:

RAMP

HAULING OUT EQUIPMENT

keep landing area clear of craft at all

MORRING BUOYS. IF AND HOW MARKED

LIGHTS

Proposed

SERVICE

Proposed

FUEL.

COMMUNICATION SYSTEM: Not yet installed

RADIO

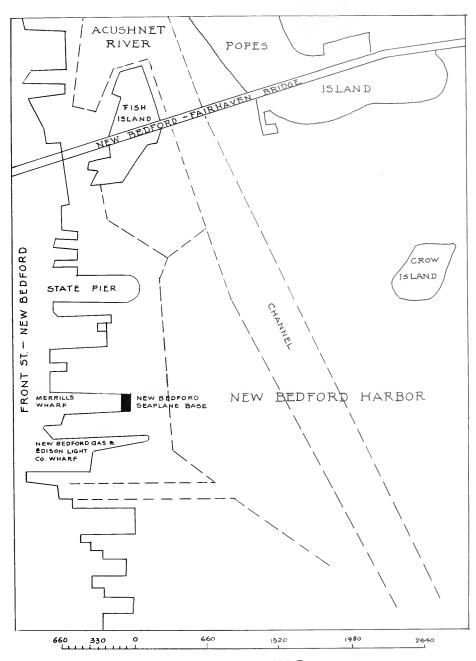
TELEPHONE

NEAREST BROADCASTING STATION WNBH - New Bedford - 1310 KC Yes, by telephone from Boston WEATHER REPORTS

3.	METEOROLOGICAL DATA	Annual	Winter	Summer
	PREVAILING WIND DIRECTION	S.W.	N.W.	S.W.
	PREVAILING WIND PERCENTAGE	30.0	43.5	45.5
	RAINFALL AVERAGE, inches	41.74	13.54	13.96
	TEMPERATURE, maximum	99.0	60.0	99.0
	TEMPERATURE, minimum	-12.0	-12.0	40.0

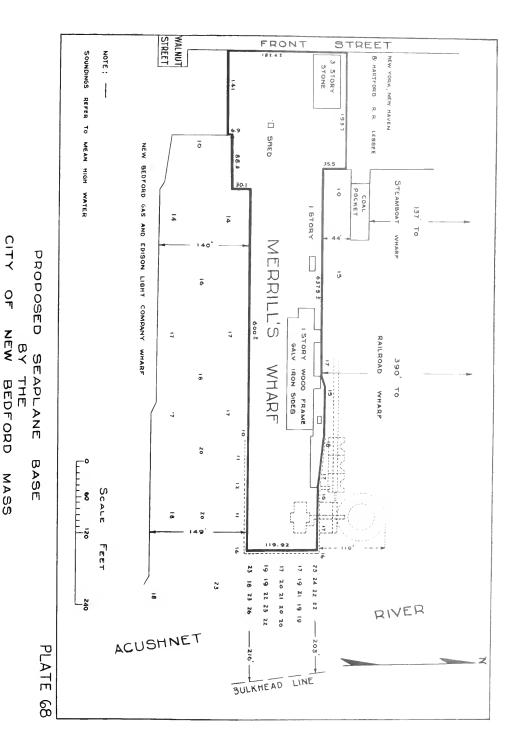
REMARKS:

Data obtained from the Weather Station at New Bedford and the U. S. Weather Bureau climatological reports. Climatological data taken over a 13 year period. Wind data taken over a 10 year period.



NEW BEDFORD SEAPLANE BASE
NEW BEDFORD MASS.







NEWBURY, MASSACHUSETTS

1. NAME OF AIRPORT Plum Island Airport CLASS Commercial

OWNER Eliza B. Little, Newburyport, Mass.

LESSEE Warren F. Frothingham, Salisbury, Mass.

OPERATOR Polando Air Service

2. LOCATION

DISTANCE AND DIRECTION BY ROAD FROM CENTER OF CITY 2 miles S.E. of Newburyport

LANDMARKS South of Merrimack River Basin

AIRLINE DISTANCE FROM CENTER OF CITY 12 miles to Newburyport

DISTANCE BY ROAD FROM POST OFFICE 2 miles to Newburyport Post Office

NAME AND LOCATION OF ROAD TO NEAREST TOWN Airport is on South side of Plum Island Road which leads to Newburyport

LATITUDE 42°47'40" LONGITUDE 70°50'25"
ALTITUDE ABOVE SEA LEVEL 15 feet

DESCRIPTION

SHAPE Irregular

TOTAL AREA OF FIELD 19 Acres

AREA AVAILABLE FOR LANDING AND TAKING-OFF 9 Acres

TYPE OF SOIL Sand and gravel GRADIENT Level

NATURE OF SURFACE Sod

IS IT AN ALL-WAY FIELD Yes IS LANDING AREA FENCED Yes, fence and ditch

IS SURROUNDING PROPERTY OWNED OR CONTROLLED BY OWNER OR OPERATOR
Yes, by owner

IS THIS PROPERTY ZONED No

IN WHAT DIRECTION IS LAND AVAILABLE FOR EXPANSION West 2000 and S.E. by fill of ditch and marsh land

4. DRAINAGE

WHAT TYPE IS PRESENT DRAINAGE SYSTEM Natural

IS THIS ADEQUATE FOR ORDINARY WEATHER CONDITIONS Yes

DOES WATER STAND ON FIELD No

IS FIELD SUBJECT TO PERIODIC FLOODING No

IS FIELD USEABLE DURING THAWS Yes

5. SERVICE

SERVICING---Day Yes

Night No

REPAIRS Day only

REPAIR FACILITIES --- Engine

Minor repairs only

Aircraft Minor repairs only

GASOLINE Yes

HANGAR STORAGE CHARGES

OCTANE RATING 73%

ARE SPARE PARTS AVAILABLE No

\$1.50 per 24 hours

ADMINISTRATION BUILDING No REST ROOMS No RESTAURANT No IS RATIROAD SIDING AT AIRPORT No

TRANSPORTATION TO CITY By taxi

FIRST AID Yes

FIRE APPARATUS Yes

6. COMMUNICATION

TELEPHONE CONNECTION No

RADIO No

NEAREST BROADCASTING STATIONS WLLH - Lowell - 1370 K.C. WLAW - Lawrence 680 K.C.

ARE WEATHER REPORTS AVAILABLE Yes, by telephone from Boston AIRWAY TELETYPE No VISUAL TRAFFIC CONTROL No

7.	METEOROLOGICAL DATA	Annual	Winter	Summer
	PREVAILING WIND DIRECTION	N.W.	N.W.	S. E.
	PREVAILING WIND PERCENTAGE	22.2	32.0	21.2
	RAINFALL AVERAGE, inches	37.99		
	TEMPERATURE, maximum	104.0	71.0	104.0
	TEMPERATURE, minimum	-19.0	-19.0	31.0

REMARKS: Data obtained from Coast Guard Station #20 and from the climatological reports of the U. S. Weather Station at Haverhill, Mass.

Climatological data taken over an 8 year period. Wind data taken over a 10 year period.

8. LANDING STRIPS

None

9. USUAL TAKE-OFF AND LANDING DIRECTIONS AND LENGTHS

E. - W. 1600 ft.

N. - S. 1100 ft.

N.W. - S.E. 1100 ft.

None

11. APRONS AND TAXIWAYS

None

12. HANGARS

One 43' x 43' Wooden hangar with metal sides and gravel floor

13. ADMINISTRATION OR OTHER BUILDINGS

None

14. OBSTRUCTIONS WITHIN A 20 TO 1 GLIDING ANGLE

30' Pole line on East border of field

15. IS LANDING AREA TO BE KEPT CLEAR FOR USE AT ALL TIMES Yes

16. MARKING AND IDENTIFICATION

STANDARD CIRCLE

No

NAME PAINTED ON HANGAR

OTHER MARKINGS Burley & Stevens Factory, $2\frac{1}{2}$ miles N. W. of airport, has directional arrow to airport and "Newburyport" on roof

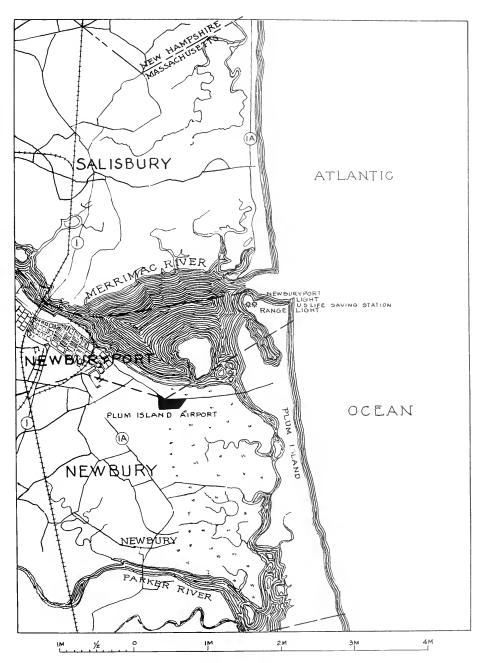
WIND DIRECTION INDICATOR 8' Cone ILLUMINATED Yes

ARE OBSTRUCTIONS MARKED No LIGHTED No

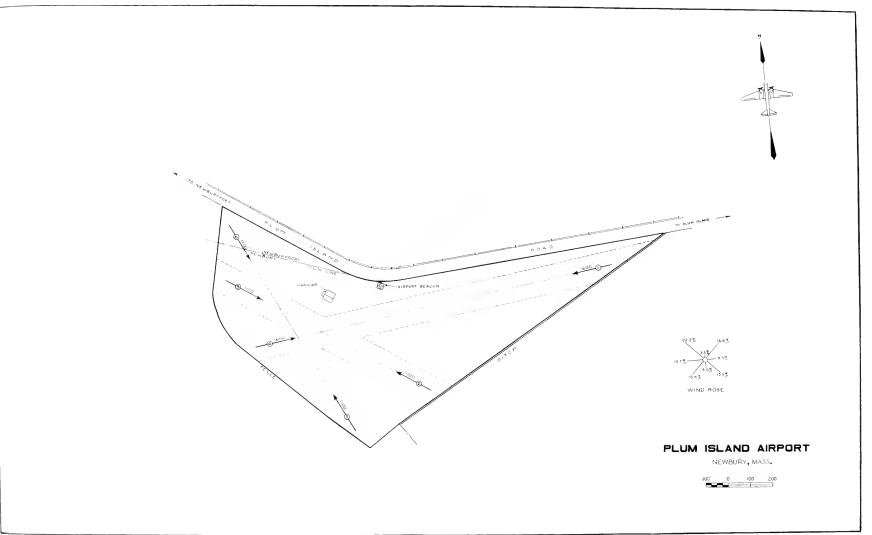
ARE LANDING STRIPS OR RUNWAYS LIGHTED No

17. LIGHTING

Code beacon, code ... in center of Easterly side of field No other lighting except wind cone.



LOCATION MAP
PLUM ISLAND AIRPORT
NEWBURY MASS





NORTH ANODVER. MASSACHUSETTS

1. NAME OF AIRPORT Lawrence Airport CLASS Municipal

OWNER City of Lawrence, Mass.

LESSEE

OPERATOR (Airport under construction)

2. LOCATION

DISTANCE AND DIRECTION BY ROAD FROM CENTER OF CITY

2 miles N. E. of Lawrence

LANDMARKS Between Merrimac River and Great Pond

AIRLINE DISTANCE FROM CENTER OF CITY 2 miles from Lawrence

DISTANCE BY ROAD FROM POST OFFICE 2 miles from Lawrence Post Office

NAME AND LOCATION OF ROAD TO NEAREST TOWN Road from airport to Route 125 to Lawrence

LATITUDE 42°43'00" LONGITUDE 71°07'00" ALTITUDE ABOVE SEA LEVEL 155 feet

DESCRIPTION

SHAPE Irregular

TOTAL AREA OF FIELD 315 Acres

AREA AVAILABLE FOR LANDING AND TAKING-OFF 38.8 Acres

TYPE OF SOIL Clay and gravel GRADIENT 1.5%

NATURE OF SURFACE Sod, and to have macadam runways with clay and gravel shoulders

and gravel shoulders

IS IT AN ALL-WAY FIELD No IS LANDING AREA FENCED No

SURROUNDING PROPERTY OWNED OR CONTROLLED BY OWNER OR OPERATOR No

IS THIS PROPERTY ZONED No

IN WHAT DIRECTION IS LAND AVAILABLE FOR EXPANSION None

4. DRAINAGE

WHAT TYPE IS PRESENT DRAINAGE SYSTEM Natural with some concrete and tile drains

IS THIS ADEQUATE FOR ORDINARY WEATHER CONDITIONS Yes

DOES WATER STAND ON FIELD No IS FIELD USEABLE DURING THAWS Yes

IS FIELD SUBJECT TO PERIODIC FLOODING No

No service until completed

SERVICING---Day

Night

REPAIRS

REPAIR FACILITIES --- Engine

Aircraft

GASOLINE

OCTANE RATING

ARE SPARE PARTS AVAILABLE HANGAR STORAGE CHARGES

ADMINISTRATION BUILDING

TRANSPORTATION TO CITY

REST ROOMS

IS RAILROAD SIDING AT AIRPORT No

By taxi, 50¢, 10 minutes

RESTAURANT

FIRST AID

FIRE APPARATUS

6. COMMUNICATION

No communication until completed

TELEPHONE CONNECTION

RADIO

NEAREST BROADCASTING STATIONS WLLH - Lowell - 1370 K.C.

WLAW - Lawrence 680 K.C.

ARE WEATHER REPORTS AVAILABLE Yes

AIRWAY TELETYPE

VISUAL TRAFFIC CONTROL

7•	METEOROLOGICAL DATA	Annual	Winter	Summer
	PREVAILING WIND DIRECTION	N.W.	N.W.	N.W. S.W.
	PREVAILING WIND PERCENTAGE	27.0	32.8	21.8 23.0
	RAINFALL AVERAGE, inches	41.67	14.99	14.30
	TEMPERATURE, maximum	102.0	69.0	102.0
	TEMPERATURE, minimum	-20.0	-20.0	32.0

REMARKS: Data obtained from Cooperative Weather Station at Lawrence and climatological reports of U. S. Weather Bureau Climatological data taken over a 13 year period. Wind data taken over a 11 year period.

8. LANDING STRIPS

One N.W. - S.E. 3000' x 300' Macadam 100'. Rest gravel and clay One N.E. - S.W. 2800' x 300' Macadam 100'. Rest gravel and clay

9. USUAL TAKE-OFF AND LANDING DIRECTIONS AND LENGTHS

One NW - SE 2850' x 100' Stabilized base and crushed stone top
One NE - SW 2600' x 100' Stabilized base and crushed stone top

11. APRONS AND TAXIWAYS

Taxi Strips between Runways 50' x 1200' Macadam. 75' of gravel on each side. Area square yards 6,666. Good condition.

12. HANGARS

No hangars until completed

13. ADMINISTRATION OR OTHER BUILDINGS

No buildings until completed

14. OBSTRUCTIONS WITHIN A 20 TO 1 GLIDING ANGLE

Trees at S. W. end of N.E. - S.W. Runways, 50° to 60° high and pole line lower than trees.

15. IS LANDING AREA TO BE KEPT CLEAR FOR USE AT ALL TIMES Yes

16. MARKING AND IDENTIFICATION No markings until completed

STANDARD CIRCLE

NAME PAINTED ON HANGAR

OTHER MARKINGS

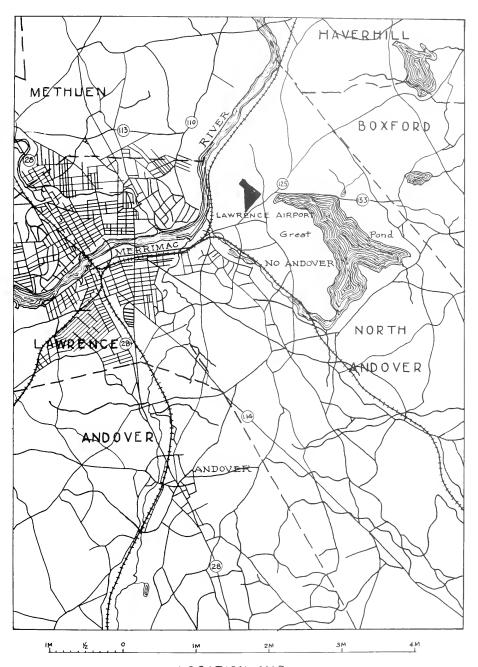
WIND DIRECTION INDICATOR 8: Sock ILLUMINATED

ARE OBSTRUCTIONS MARKED LIGHTED

ARE LANDING STRIPS OR RUNWAYS LIGHTED

17. LIGHTING

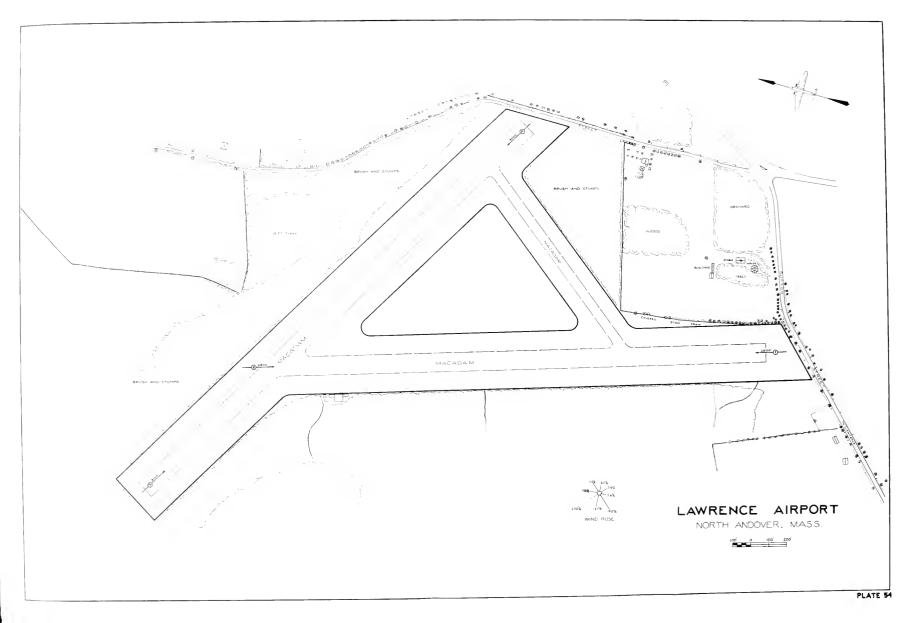
No lighting until completed.



LOCATION MAP

LAWRENCE AI NORTH ANDOVER MASS

AIRPORT



			14 o	

NORTHAMPTON, MASSACHUSETTS

1. NAME OF AIRPORT LaFleur Airport CLASS Commercial

OWNER L. L. LaFleur, King Street, Northampton, Mass.

LESSEE LaFleur Airport & Flying Service, Inc., Northampton

OPERATOR L. L. LaFleur MANAGER Donald Hood, Northampton

2. LOCATION

DISTANCE AND DIRECTION BY ROAD FROM CENTER OF CITY 3/5 mile N.E.

LANDMARKS 3 Steel bridges to N.W. Fairground and race track to S.W. Connecticut River is North of airport.

AIRLINE DISTANCE FROM CENTER OF CITY 3/5 mile N.E.

DISTANCE BY ROAD FROM POST OFFICE 1 mile

NAME AND LOCATION OF ROAD TO NEAREST TOWN Dirt road from airport to Route #9 to Northampton.

LATITUDE 42°19'30" LONGITUDE 72°36'36" ALTITUDE ABOVE SEA LEVEL 120 feet

DESCRIPTION

SHAPE Very irregular

TOTAL AREA OF FIELD 58 Acres

AREA AVAILABLE FOR LANDING AND TAKING-OFF 49 Acres

TYPE OF SOIL Sandy loam GRADIENT Level

NATURE OF SURFACE Sod

IS IT AN ALL-WAY FIELD Yes IS LANDING AREA FENCED NO

SURROUNDING PROPERTY OWNED OR CONTROLLED BY OWNER OR OPERATOR No

IS THIS PROPERTY ZONED No

IN WHAT DIRECTION IS LAND AVAILABLE FOR EXPANSION South 1 mile. North 1000 ft., and West 1500 ft.

4. DRAINAGE

WHAT TYPE IS PRESENT DRAINAGE SYSTEM Natural

IS THIS ADEQUATE FOR ORDINARY WEATHER CONDITIONS Yes

DOES WATER STAND ON FIELD No

IS FIELD SUBJECT TO PERIODIC FLOODING No, except during flood periods as in the Spring of 1936

IS FIELD USEABLE DURING THAWS Yes

SERVICING---Day Yes

Night Yes

REPAIRS

Day and night

REPAIR FACILITIES --- Engine

Minor only

Aircraft Minor only

GASOLINE Yes

OCTANE RATING 74 and 82% For minor repairs only

ARE SPARE PARTS AVAILABLE HANGAR STORAGE CHARGES

\$1.50 to \$2.00 per night

ADMINISTRATION BUILDING Yes REST ROOMS Yes RESTAURANT No IS RAILROAD SIDING AT AIRPORT NO TRANSPORTATION TO CITY By texi, 50¢, 5 minutes. By bus, 10¢.

FIRST AID Yes

FIRE APPARATUS

Yes

6. COMMUNICATION

TELEPHONE CONNECTION Yes

RADIO C. N. DeRose, WICNO, Amateur Radio Station N.E. of field operated on 10 and 160 M bands

NEAREST BROADCASTING STATIONS

WSPR - Springfield - 1140 K.C. WBZA - Springfield - 990 K.C.

ARE WEATHER REPORTS AVAILABLE

By radio and telephone from Albany Boston and Springfield

26.0

A PERSONAL PROPERTY STATEMENTS AT .

TEMPERATURE, minimum

VISUAL TRAFFIC CONTROL

AIRWAY TELETYPE No

Summer METEOROLOGICAL DATA Annual Winter 7. N.W. S.E. PREVAILING WIND DIRECTION N.W. PREVAILING WIND PERCENTAGE 27.4 RAINFALL AVERAGE, inches 16.2 41.68 12,96 TEMPERATURE, maximum 100.0 100.0

-22.0

REMARKS: Data obtained from U. S. Weather Bureau Station at Amherst College, and climatological reports of the U. S. Weather Bureau.

Climatological data taken over a 13 year period.

Wind data taken over a 13 year period.

LANDING STRIPS

None

9. USUAL TAKE-OFF AND LANDING DIRECTIONS AND LENGTHS

N.W. - S.E. 2400 ft.

E. - W. 2000 ft. N. - S. 850 ft.

N.E. - S.W. 1100 ft.

None

APRONS AND TAXIWAYS 11.

None

12. HANGARS

One 64' x 64' Wooden hangar with cement floor Hangar door 62' x 10'. Unheated.

13. ADMINISTRATION OR OTHER BUILDINGS

One 28' x 14' x 8' Wooden building abutting hangar

14. OBSTRUCTIONS WITHIN A 20 TO 1 GLIDING ANGLE

50 ft. radio antenna poles N. E. of field

15. IS LANDING AREA TO BE KEPT CLEAR FOR USE AT ALL TIMES Yes

16. MARKING AND IDENTIFICATION

STANDARD CIRCLE

No NAME PAINTED ON HANGAR "Northampton" on roof

OTHER MARKINGS "LaFleur Airport" on side of hangar and on roof.

WIND DIRECTION INDICATOR 14 ft. Sock ILLUMINATED No

ARE OBSTRUCTIONS MARKED No LIGHTED No

ARE LANDING STRIPS OR RUNWAYS LIGHTED No

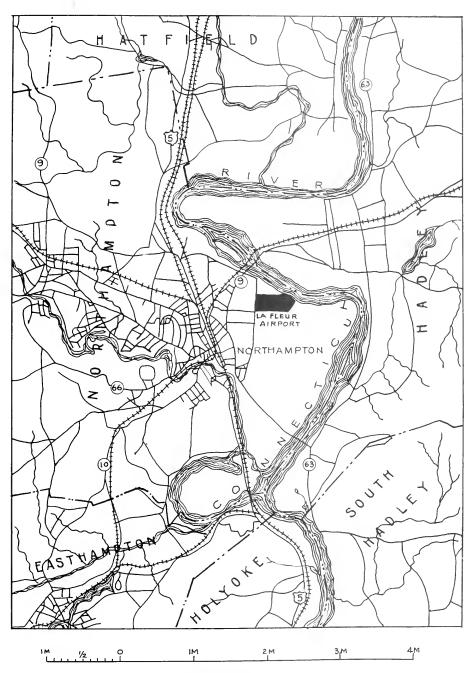
17. LIGHTING

One, 16", 500 watt fixed single end beacon mounted on hangar and used as a floodlight. 500 Watt floodlights on either side of hangar.

18. REMARKS:

Taxiway to the river from airport with sheltered cove for seaplane anchorage.



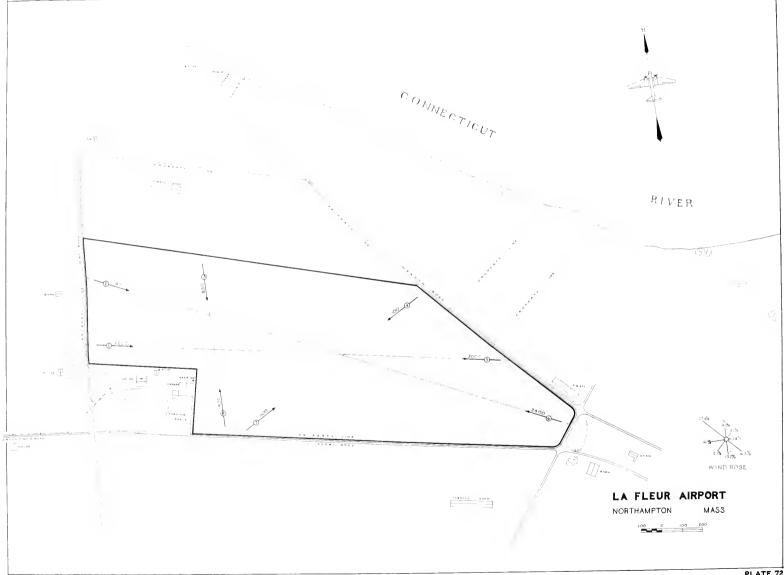


LOCATION MAP

LA FLEUR AIRPORT

NORTHAMPTON MASS





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ORANGE, MASSACHUSETTS

1. NAME OF AIRPORT Orange and Athol Airport CLASS Municipal

OWNER

Towns of Athol and Orange

LESSEE

George W. Lake, Athol. Mass.

OPERATOR

George W. Lake, Athol. Mass.

2. LOCATION

DISTANCE AND DIRECTION BY ROAD FROM CENTER OF CITY 3 miles S.W. of Athol and $2\frac{1}{2}$ miles S.E. of Orange

LANDMARKS None

AIRLINE DISTANCE FROM CENTER OF CITY 2 miles from Orange

DISTANCE BY ROAD FROM POST OFFICE 2 miles from Orange Post Office

NAME AND LOCATION OF ROAD TO NEAREST TOWN E. River Street to Orange and Athol on East side of field

> LATITUDE 42°34'00" LONGITUDE 72°17'00" ALTITUDE ABOVE SEA LEVEL 550 feet

DESCRIPTION 3.

SHAPE Very irregular

TOTAL AREA OF FIELD 107.5 Acres

AREA AVAILABLE FOR LANDING AND TAKING-OFF 80 Acres

TYPE OF SOIL Gravel GRADIENT 3.5% on North portion and .9% average on remainder

NATURE OF SURFACE Sod and gravel

Yes IS LANDING AREA FENCED IS IT AN ALL-WAY FIELD

SURROUNDING PROPERTY OWNED OR CONTROLLED BY CYMER OR OPERATOR No

IS THIS PROPERTY ZONED No

IN WHAT DIRECTION IS LAND AVAILABLE FOR EXPANSION None

4. DRAINAGE

WHAT TYPE IS PRESENT DRAINAGE SYSTEM

IS THIS ADEQUATE FOR ORDINARY WEATHER CONDITIONS Yes

DOES WATER STAND ON FIELD No

IS FIELD SUBJECT TO PERIODIC FLOODING No, except in extreme floods as in 1936

IS FIELD USEABLE DURING THAWS Yes

SERVICING---Day No Night No

REPAIRS No

REPAIR FACILITIES --- Engine

Aircraft No

GASOLINE Yes, in Orange and Athol OCTANE RATING 73 and 80% ARE SPARE PARTS AVAILABLE No HANGAR STORAGE CHARGES \$1.00 per night. \$8.00 per month.

No

ADMINISTRATION BUILDING Yes REST ROOMS No RESTAURANT No IS RAILROAD SIDING AT AIRPORT No TRANSPORTATION TO CITY None

FIRST AID No FIRE APPARATUS None

COMMUNICATION

TELEPHONE CONNECTION Yes

RADIO None

NEAREST BROADCASTING STATIONS WTAG - Worcester - 580 K.C.

WORC - Worcester - 1280 K.C.

ARE WEATHER REPORTS AVAILABLE By telephone from Boston and Spring-field.

AIRWAY TELETYPE No VISUAL TRAFFIC CONTROL No

7.	METEOROLOGICAL DATA	Annual	Winter	Summer
	PREVAILING WIND DIRECTION	$N \cdot W$	N.W.	N.W.
	PREVAILING WIND PERCENTAGE	43.5	51.3	35.4
	RAINFALL AVERAGE, inches	43.61	15.45	14.97
	TEMPERATURE, maximum	98.0	73.0	98.0
	TEMPERATURE, minimum	-16.0	-16.0	29.0

REMARKS: Data obtained from Fitchburg Sewage Disposal Plant,
Lunenburg, Mass., and climatological reports from the
U. S. Weather Bureau.
Climatological data taken over a 13 year period.
Wind data taken over a 10 year period.

8. LANDING STRIPS

None

9. USUAL TAKE-OFF AND LANDING DIRECTIONS AND LENGTHS

N.E. - S.W. 2700 ft. E. - W. 2500 ft. N.W. - S.E. 2300 ft.

None

11. APRONS AND TAXIWAYS

None

12. HANGARS

One 35' x 20' with 35' x 12' door. Wood with dirt floor One 50' x 20' with 50' x 12' door. Wood with dirt floor One (private) (Estey) Not heated.

13. ADMINISTRATION OR OTHER BUILDINGS

Office 12' x 12' x 8' Wood

14. OBSTRUCTIONS WITHIN A 20 TO 1 GLIDING ANGLE

40' Pole line to North on East River Street Trees surround entire field

15. IS LANDING AREA TO BE KEPT CLEAR FOR USE AT ALL TIMES Yes

16. MARKING AND IDENTIFICATION

STANDARD CIRCLE Yes

NAME PAINTED ON HANGAR No

OTHER MARKINGS None

WIND DIRECTION INDICATOR 3' Vane ILLUMINATED No

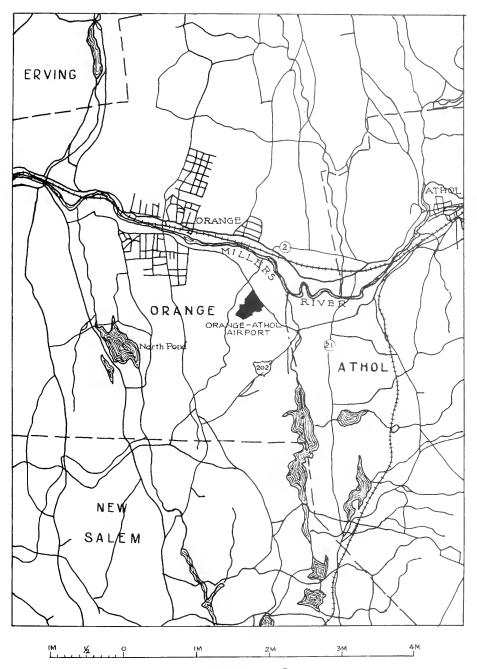
ARE OBSTRUCTIONS MARKED No LIGHTED No

ARE LANDING STRIPS OR RUNWAYS LIGHTED No

17. LIGHTING

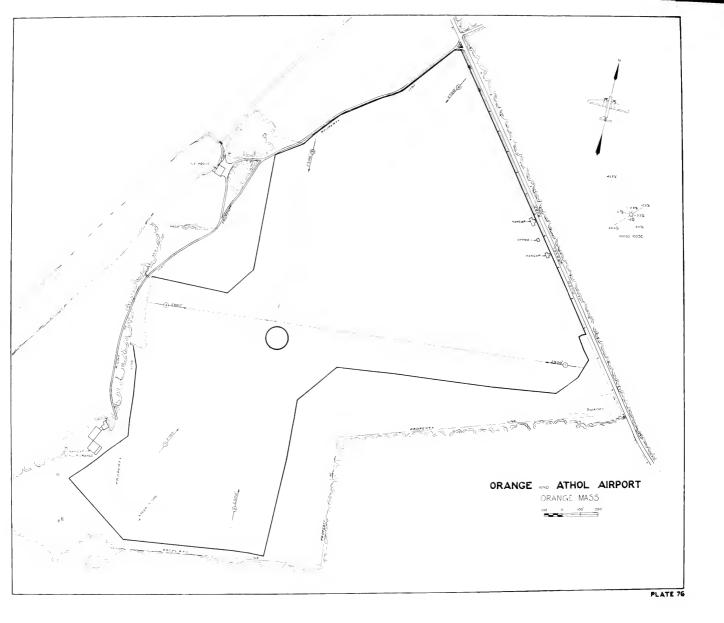
None

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ORANGE — ATHOL AIRPORT ORANGE MASS

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PALMER, MASSACHUSETTS

NAME OF AIRPORT Valley Airport CLASS Commercial
 OWNER John Tobias, Valley Airport, Old Enfield Rd., Palmer, Mass.
 LESSEE Hagberg Flying Service, Old Enfield Road, Palmer, Mass.
 OPERATOR Hagberg Flying Service, Old Enfield Road, Palmer, Mass.

2. LOCATION

DISTANCE AND DIRECTION BY ROAD FROM CENTER OF CITY 7 miles
North of Palmer and 6 miles S.W. of Ware

LANDMARKS Pattaquattic Hill lamiles E. Pattaquattic Pond 1 mile S.S.E. Forest Lake lamiles S.S.E. Enfield Dike 4 miles N. Boston & Albany Railroad and Ware River on E. boundary.

AIRLINE DISTANCE FROM CENTER OF CITY 5 miles from Palmer and 4.5 miles from Ware

DISTANCE BY ROAD FROM POST OFFICE 7 miles from Palmer and 5 miles from Ware Post Office

NAME AND LOCATION OF ROAD TO NEAREST TOWN Adjacent to Route #32, Ware to Palmer

LATITUDE 42°13'00" LONGITUDE 72°19'00" ALTITUDE ABOVE SEA LEVEL 400 feet

3. DESCRIPTION

SHAPE Irregular

TOTAL AREA OF FIELD 17 Acres

AREA AVAILABLE FOR LANDING AND TAKING-OFF 26 Acres

TYPE OF SOIL Gravel GRADIENT Level

NATURE OF SURFACE Sod

IS IT AN ALL-WAY FIELD Yes IS LANDING AREA FENCED No

SURROUNDING PROPERTY OWNED OR CONTROLLED BY OWNER OR OPERATOR Yes

IS THIS PROPERTY ZONED No

IN WHAT DIRECTION IS LAND AVAILABLE FOR EXPANSION N., E and W if road is relocated.

4. DRAINAGE

WHAT TYPE IS PRESENT DRAINAGE SYSTEM Natural

IS THIS ADEQUATE FOR ORDINARY WEATHER CONDITIONS Yes

DOES WATER STAND ON FIELD No

IS FIELD SUBJECT TO PERIODIC FLOODING No

IS FIELD USEABLE DURING THAWS Yes

SERVICING---Day Yes, on call from Springfield Night No

REPAIRS Days only

REPAIR FACILITIES --- Engine Major and minor

Aircraft Major and minor

GASOLINE Yes OCTANE RATING 73 and 80%

ARE SPARE PARTS AVAILABLE No

HANGAR STORAGE CHARGES \$10.00 to \$15.00 per month

ADMINISTRATION BUILDING No REST ROOMS Yes RESTAURANT Yes IS RAILROAD SIDING AT AIRPORT No

TRANSPORTATION TO CITY By taxi to Palmer, \$2.25, 15 minutes.

FIRST AID Emergency kit only FIRE APPARATUS Hand extinguishers

6. COLMUNICATION

TELEPHONE CONNECTION Yes

RADIO No

NEAREST BROADCASTING STATIONS

WBZA - Springfield - 990 K.C.

WSPR - Springfield - 1140 K.C.

WORC - Wordester - 1280 K.C.

WTAG - Worcester - 580 K.C.

ARE WEATHER REPORTS AVAILABLE Yes, by telephone from Airway
Weather Station at Springfield Airport

AIRWAY TELETYPE No

VISUAL TRAFFIC CONTROL

No

7.	METEOROLOGICAL DATA	Annual	Winter	Summer
	PREVAILING WIND DIRECTION	W.	N.W.	W
	PREVAILING WIND PERCENTAGE	19.4		
	RAINFALL AVERAGE, inches	45.13	14.36	15.50
	TEMPERATURE, maximum	99.0	70.1	99.0
	TEMPERATURE, minimum	-20.0	-20.0	33.0

REMARKS: Data compiled with the assistance of the staff of Clark
University Weather Station at Worcester and from the
climatological reports of the U. S. Weather Bureau.
Climatological data taken over a 13 year period.
Wind data taken over a 15 year period.

8. LANDING STRIPS

None

9. USUAL TAKE-OFF AND LANDING DIRECTIONS AND LENGTHS

N. - S. 1550 ft.

N. W. - S.E. 1150 ft.

N. E. - S.W. 1600 ft.

None

11. APRONS AND TAXIWAYS

None

12. HANGARS

One 50' x 70' Wooden hangar, dirt floor, unheated.
Hangar door 70' x 12'

13. ADMINISTRATION OR OTHER BUILDINGS

Office Building 12' x 12' x 8' Wooden construction (Ell on hangar)

14. OBSTRUCTIONS WITHIN A 20 TO 1 GLIDING ANGLE

60' Trees to South. Hangar, house and farm buildings to West. 50' Trees to N. E. Hill 200' above level of field, 1500' North

15. IS LANDING AREA TO BE KEPT CLEAR FOR USE AT ALL TIMES

Except during winter

16. MARKING AND IDENTIFICATION

STANDARD CIRCLE Yes

NAME PAINTED ON HANGAR "Valley Airport" "Palmer, Mass."
on roof.

OTHER MARKINGS None

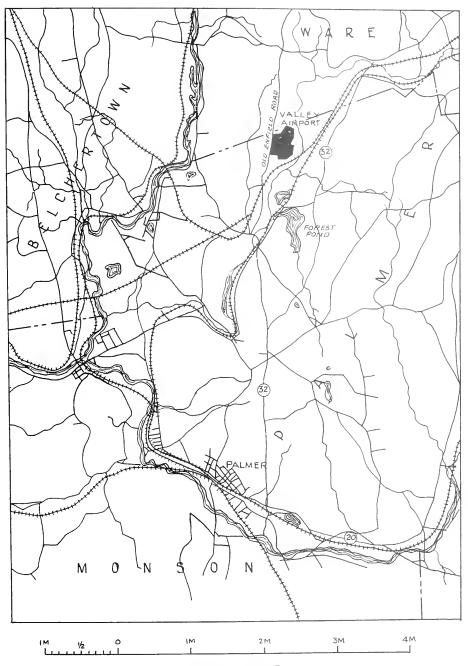
WIND DIRECTION INDICATOR 10' Sock ILLUMINATED No

ARE OBSTRUCTIONS MARKED No LIGHTED No

ARE LANDING STRIPS OR RUNWAYS LIGHTED No

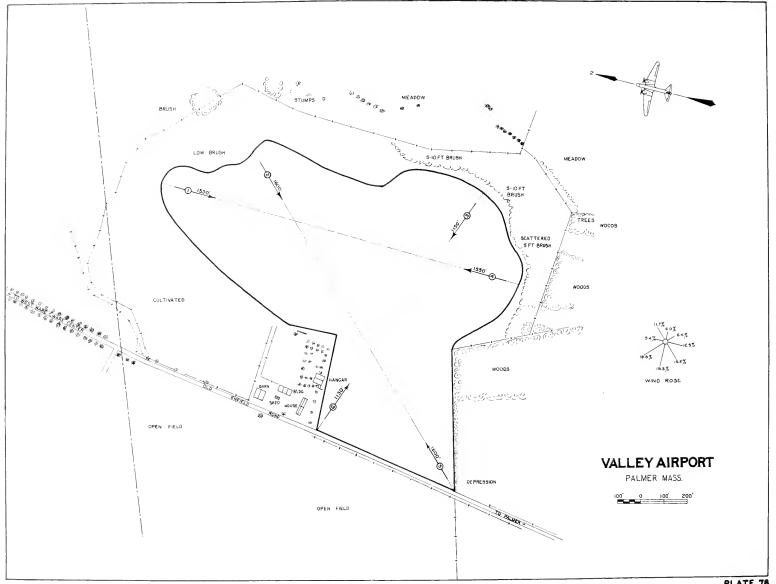
17. LIGHTING None

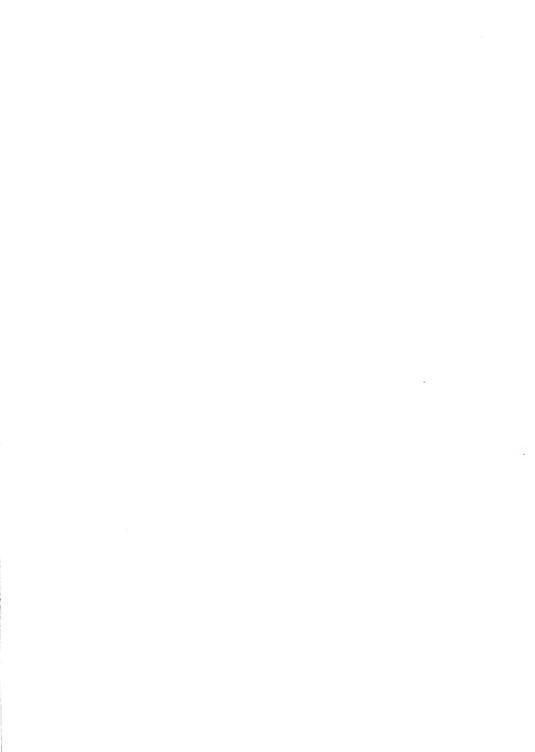




VALLEY AIRPORT
PALMER MASS







PITTSFIELD, MASSACHUSETTS

1. NAME OF AIRPORT Pittsfield Airport CLASS Commercial

(Department of Commerce OWNER Pittsfield Airport Corp. Intermediate Site No. 3)

LESSEE Bureau of Air Commerce

OPERATOR

2. LOCATION

DISTANCE AND DIRECTION BY ROAD FROM CENTER OF CITY 1.0 mile S.W. of Pittsfield line

LANDMARKS Hill 1870 ft. 1.0 mile South. Hill 1360 ft. 1.0 mile E. S. E.

AIRLINE DISTANCE FROM CENTER OF CITY 2.25 miles from Pittsfield DISTANCE BY ROAD FROM POST OFFICE 2.5 miles from Pittsfield Post Office

NAME AND LOCATION OF ROAD TO NEAREST TOWN Road adjacent to airport leads to Pittsfield

> LATITUDE 42°25'45" LONGITUDE 73°17'20" ALTITUDE ABOVE SEA LEVEL 1100 feet

DESCRIPTION 3.

SHAPE Cross or T

DIMENSIONS

14 Acres TOTAL AREA OF FIELD

AREA AVAILABLE FOR LANDING AND TAKING-OFF Landing strips only

TYPE OF SOIL Loam and gravel GRADIENT 1% to East

NATURE OF SURFACE Sod

IS IT AN ALL-WAY FIELD No IS LANDING AREA FENCED No

SURROUNDING PROPERTY OWNED OR CONTROLLED BY OWNER OR OPERATOR -

IS THIS PROPERTY ZONED

IN WHAT DIRECTION IS LAND AVAILABLE FOR EXPANSION South 1000

DRAINAGE

WHAT TYPE IS PRESENT DRAINAGE SYSTEM Stone drains IS THIS ADEQUATE FOR ORDINARY WEATHER CONDITIONS FIELD USEABLE DURING THAWS -DOES WATER STAND ON FIELD -IS FIELD SUBJECT TO PERIODIC FLOODING -

SERVICING---Day

No

Night

No

REPAIRS No

REPAIR FACILITIES --- Engine

No

Aircraft No

GASOLINE Yes

OCTANE RATING -

ARE SPARE PARTS AVAILABLE No

HANGAR STORAGE CHARGES

ADMINISTRATION BUILDING - REST ROOMS NO RESTAURANT IS RAILROAD SIDING AT AIRPORT -

TRANSPORTATION TO CITY Yes

FIRST AID

No

FIRE APPARATUS

No

No

communication

TELEPHONE CONNECTION

Nearby

RADIO No

NEAREST BROADCASTING STATIONS

WBZA - Springfield - 990 K.C.

WSPR - Springfield - 1140 K.C.

ARE WEATHER REPORTS AVAILABLE

AIRWAY TELETYPE -

Albany
VISUAL TRAFFIC CONTROL -

7.	METEOROLOGICAL DATA	Annual	Winter	Summer
	PREVAILING WIND DIRECTION	W	W.	W
	PREVAILING WIND PERCENTAGE	32.2	26.1	39.0
	RAINFALL AVERAGE, inches	40.38	11.89	15.60
	TEMPERATURE, maximum	101.0	73.0	101.0
	TEMPERATURE, minimum	-23.0	-23.0	28.0

REMARKS: Climatological data taken over a 10 year period.
Wind data taken over a 10 year period.

8. LANDING STRIPS

N.W. - S.E. 300 ft. x 2600 ft.

N. - S. 300 ft. x 1650 ft.

9. USUAL TAKE-OFF AND LANDING DIRECTIONS AND LENGTHS

None

11. APRONS AND TAXIWAYS

None

12. HANGARS

None

13. ADMINISTRATION OR OTHER BUILDINGS

None

14. OBSTRUCTIONS WITHIN A 20 TO 1 GLIDING ANGLE

N., N.W. and S.W., houses, pole line and trees on highway. S.E. trees.

15. IS LANDING AREA TO BE KEPT CLEAR FOR USE AT ALL TIMES -

16. MARKING AND IDENTIFICATION

STANDARD CIRCLE Yes

NAME PAINTED ON HANGAR
OTHER MARKINGS "A - B 3" on shed

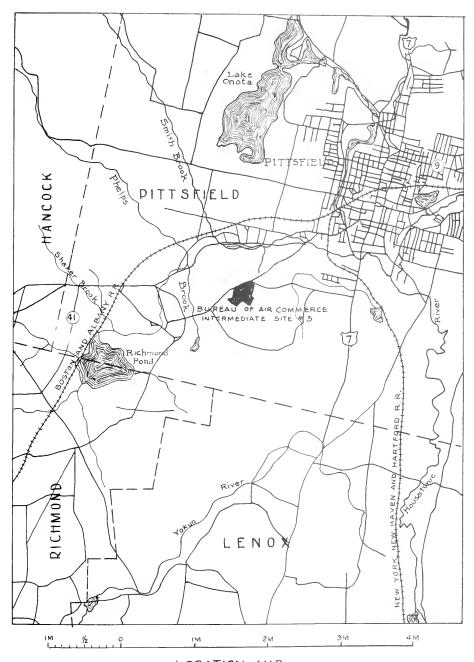
WIND DIRECTION INDICATOR Yes ILLUMINATED
ARE OBSTRUCTIONS MARKED Yes LIGHTED Yes

ARE LANDING STRIPS OR RUNWAYS LIGHTED Yes

17. LIGHTING

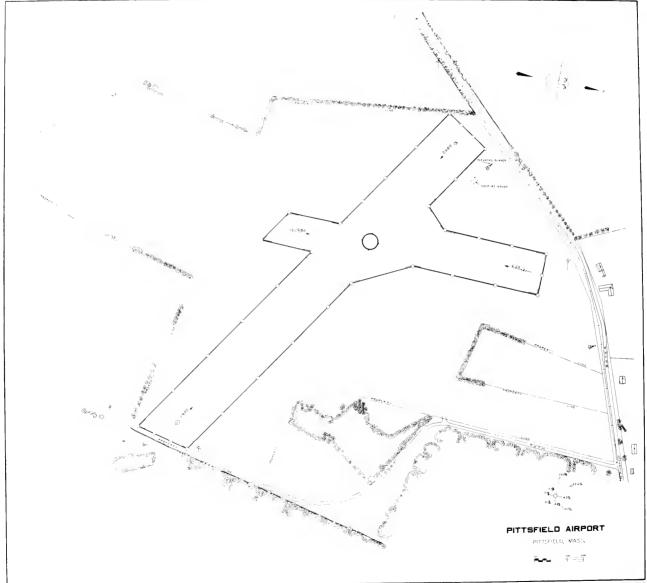
Code Beacon. Code 3 (...-) Boundary lights. Flood lights. Acetylene Blinker on 1870' hill, 1 mile South of airport.





BUREAU OF AIR COMMERCE—INTERMEDIATE SITE #3







PLYMOUTH, MASSACHUSETTS

1. NAME OF AIRPORT Plymouth Airport CLASS Commercial

OWNER Alton Sherman, Hyannis, Mass.

LESSEE None

OPERATOR Alton Sherman, Hyannis, Mass.

2. LOCATION

DISTANCE AND DIRECTION BY ROAD FROM CENTER OF CITY La miles S.W.

LANDMARKS Billington Sea 2 miles East of airport

AIRLINE DISTANCE FROM CENTER OF CITY 3 miles S.W. of Plymouth

DISTANCE BY ROAD FROM POST OFFICE 4 miles from Plymouth Post Office

NAME AND LOCATION OF ROAD TO NEAREST TOWN South Meadow Road and Summoree Street to Plymouth, and also Furnace Road connecting to Route #44 to Taunton

LATITUDE 41°54'00" LONGITUDE 70°43'25"
ALTITUDE ABOVE SEA LEVEL 140 feet

DESCRIPTION

SHAPE Irregular

TOTAL AREA OF FIELD 102.5 Acres

AREA AVAILABLE FOR LANDING AND TAKING-OFF 25.9 Acres

TYPE OF SOIL Sand GRADIENT Level

NATURE OF SURFACE Sod

IS IT AN ALL-WAY FIELD Yes IS LANDING AREA FENCED No

SURROUNDING PROPERTY OWNED OR CONTROLLED BY OWNER OR OPERATOR No

IS THIS PROPERTY ZONED No

IN WHAT DIRECTION IS LAND AVAILABLE FOR EXPANSION to S.W. 11_100° and 50 acres to N.E.

4. DRAINAGE

WHAT TYPE IS PRESENT DRAINAGE SYSTEM Natural

IS THIS ADEQUATE FOR ORDINARY WEATHER CONDITIONS Yes

DOES WATER STAND ON FIELD No FIELD USEABLE DURING THAWS YES

IS FIELD SUBJECT TO PERIODIC FLOODING No

None

SERVICING --- Day

Night

REPAIRS

None

REPAIR FACILITIES --- Engine

Aircraft

GASOLINE Yes OCTANE RATING

73%

ARE SPARE PARTS AVAILABLE

No

By private automobile

HANGAR STORAGE CHARGES No hangars

ADMINISTRATION BUILDING None REST ROOMS None RESTAURANT None IS RAILROAD SIDING AT AIRPORT No

TRANSPORTATION TO CITY

FIRE APPARATUS

Yes

communication

FIRST AID

TELEPHONE CONNECTION No

RADIO No

NEAREST BROADCASTING STATIONS WNBH - New Bedford - 1310 K.C.

WNAC - Boston - 1230 K.C.

WSAR - Fall River - 1450 K.C.

ARE WEATHER REPORTS AVAILABLE No

Yes

AIRWAY TELETYPE No VISUAL TRAFFIC CONTROL No

7.	METEOROLOGICAL DATA	Annu	al	Winter	Summer	
	PREVAILING WIND DIRECTION	S.W.	N.W.	N.W.	S.W.	
	PREVAILING WIND PERCENTAGE	24.0	20.2	33.0	31.7	
	RAINFALL AVERAGE, inches	43	.17	16.75	15.10	
	TEMPERATURE, maximum	96	.0	71.0	96.0	
	TEMPERATURE, minimum	-11	.0	-11.0	21.0	

REMARKS: Data obtained from records of U. S. Weather Bureau at Boston and Cooperative Weather Bureau Station at Plymouth.

Climatological data taken over a 13 year period. Wind data taken over a 10 year period.

8. LANDING STRIPS

None

9. USUAL TAKE-OFF AND LANDING DIRECTIONS AND LENGTHS

N. - S. 1700 ft.

N.E. - S.W. 800 ft.

10. RUNWAYS

None

11. APRONS AND TAXIWAYS

None

12. HANGARS

None

13. ADMINISTRATION OR OTHER BUILDINGS

None

14. OBSTRUCTIONS WITHIN A 20 TO 1 GLIDING ANGLE

Trees 40' high at North end of field

15. IS LANDING AREA TO BE KEPT CLEAR FOR USE AT ALL TIMES NO

16. MARKING AND IDENTIFICATION

STANDARD CIRCLE No

NAME PAINTED ON HANGAR No

OTHER MARKINGS "Plymouth" painted on shed

WIND DIRECTION INDICATOR 12' Wind Sock ILLUMINATED No

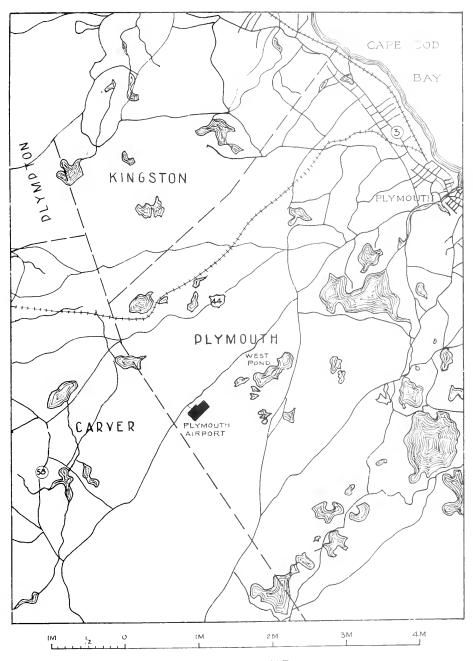
ARE OBSTRUCTIONS MARKED No LIGHTED No

ARE LANDING STRIPS OR RUNWAYS LIGHTED No

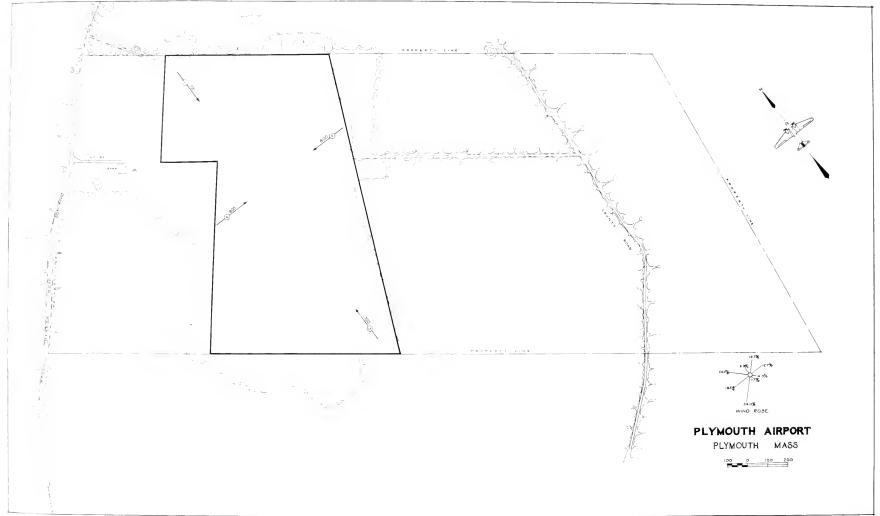
17. LIGHTING

None





LOCATION MAP
PLYMOUTH AIRPORT
PLYMOUTH MASS





PROVINCETOWN, MASSACHUSETTS

1. NAME OF AIRPORT Provincetown Airport CLASS Municipal

OWNER Commonwealth of Massachusetts

LESSEE Town of Provincetown, Mass.

OPERATOR Dr. E. W. Day, Commercial Street, Provincetown, Mass.

2. LOCATION

DISTANCE AND DIRECTION BY ROAD FROM CENTER OF CITY 3 miles N.W.

LANDMARKS Monument in Provincetown, 2 miles S.E. Highland Light 9 miles S.E. Race Point Lighthouse #34, 12 miles S.E. Wood End Lighthouse, 32 miles S.E.

AIRLINE DISTANCE FROM CENTER OF CITY 22 miles from Provincetown

DISTANCE BY ROAD FROM POST OFFICE 4 miles from Provincetown Post Office

NAME AND LOCATION OF ROAD TO NEAREST TOWN Road from airport to Race Point Road, 3100 feet. Race Point Road leads to Province-town.

LATITUDE 42°03'47" LONGITUDE 70°13'43"
ALTITUDE ABOVE SEA LEVEL 3 feet

DESCRIPTION

SHAPE Irregular

TOTAL AREA OF FIELD 270 Acres

AREA AVAILABLE FOR LANDING AND TAKING-OFF 30 Acres

TYPE OF SOIL Peat over sand GRADIENT Level

NATURE OF SURFACE Peat sod

IS IT AN ALL-WAY FIELD No IS LANDING AREA FENCED Yes

SURROUNDING PROPERTY OWNED OR CONTROLLED BY OWNER OR OPERATOR Yes

IS THIS PROPERTY ZONED No

IN WHAT DIRECTION IS LAND AVAILABLE FOR EXPANSION N.E. 2500 ft., East 250 ft., and West 250 ft.

4. DRAINAGE

WHAT TYPE IS PRESENT DRAINAGE SYSTEM Natural

IS THIS ADEQUATE FOR ORDINARY WEATHER CONDITIONS Yes

DOES WATER STAND ON FIELD No

IS FIELD SUBJECT TO PERIODIC FLOODING No

IS FIELD USEABLE DURING THAWS Yes

None

SERVICING---Day

Night

REPAIRS

REPAIR FACILITIES --- Engine

Aircraft

GASOLINE Yes, in town OCTANE RATING 73%

ARE SPARE PARTS AVAILABLE

No

HANGAR STORAGE CHARGES

No hangar

ADMINISTRATION BUILDING None REST ROOMS None RESTAURANT None IS RAILROAD SIDING AT AIRPORT No

TRANSPORTATION TO CITY

By taxi, 50¢, ten minutes

FIRST AID Yes

FIRE APPARATUS Yes, foamite extinguishers

communication

TELEPHONE CONNECTION

At Coast Guard Station

RADIO

NEAREST BROADCASTING STATIONS

WBZ - Boston - 990 K.C.

WNAC Boston - 1230 K.C.

ARE WEATHER REPORTS AVAILABLE Yes, by telephone from Boston

WEEI Boston - 590 K.C.

AIRWAY TELETYPE No

VISUAL TRAFFIC CONTROL

7.	METEOROLOGICAL DATA	Annual	Winter	Summer
	PREVAILING WIND DIRECTION	S.W.	N.W.	S.W.
	PREVAILING WIND PERCENTAGE	27.9	31.6	36.7
	RAINFALL AVERAGE, inches	41.35	14.83	14.22
	TEMPERATURE, maximum	93.0	61.0	93.0
	TEMPERATURE, minimum	-6.0	-6.0	35.0

REMARKS: Data compiled from climatological reports of U. S. Weather Bureau.

> Climatological data taken over a 13 year period. Wind data taken over a 13 year period.

8. LANDING STRIPS

2200' x 250' - 5 inch peat sod) Marked with yellow N.W. - S.E. 1800' x 200' - 5 inch peat sod) barrels.

9. USUAL TAKE-OFF AND LANDING DIRECTIONS AND LENGTHS

None

10. RUNWAYS

None

11. APRONS AND TAXIWAYS

None

12. HANGARS

None

13. ADMINISTRATION OR OTHER BUILDINGS

One 22' x 16' x 10' Wooden Building (Used for storage and garage)

14. OBSTRUCTIONS WITHIN A 20 TO 1 GLIDING ANGLE

None

15. IS LANDING AREA TO BE KEPT CLEAR FOR USE AT ALL TIMES Yes

16. MARKING AND IDENTIFICATION

STANDARD CIRCLE Yes

NAME PAINTED ON HANGAR None

OTHER MARKINGS None

WIND DIRECTION INDICATOR 9' Sock ILLUMINATED No

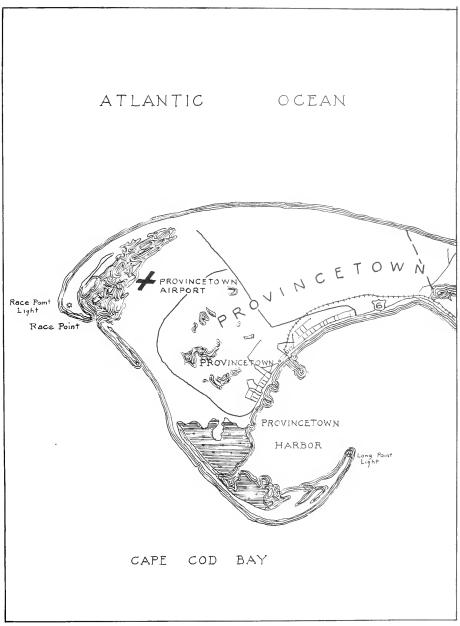
ARE OBSTRUCTIONS MARKED None LIGHTED -

ARE LANDING STRIPS OR RUNWAYS LIGHTED No

17. LIGHTING

No Lighting

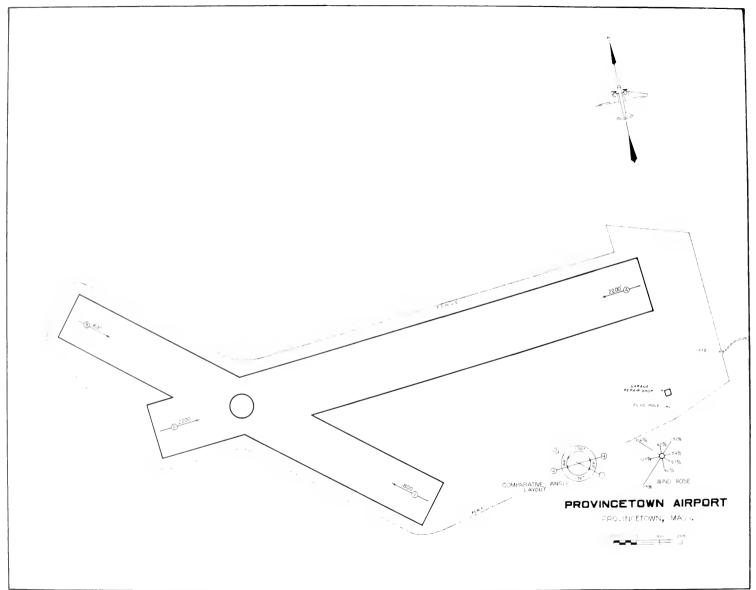
	•		



1M 1/2 0 (M 2M 3M 4M

PROVINCETOWN AIRPORT
PROVINCETOWN MASS

940



E.		

QUINCY, MASSACHUSETTS

1. NAME OF AIRPORT Dennison Airport CLASS Commercial

OWNER Dennison Airport Corp., Bradford Bldg., Quincy, Mass.

LESSEE None

OPERATOR Dennison Airport Operating Company

2. LOCATION

DISTANCE AND DIRECTION BY ROAD FROM CENTER OF CITY 31 miles N.W.

LANDMARKS Naval Reserve Airport adjacent to North. Large gas tank 1 mile to N.W. Radio towers $\frac{1}{2}$ mile to N.E.

AIRLINE DISTANCE FROM CENTER OF CITY 3 miles

DISTANCE BY ROAD FROM POST OFFICE 3 miles

NAME AND LOCATION OF ROAD TO NEAREST TOWN Quincy Shore Drive is adjacent.

LATITUDE 42°17'00" LONGITUDE 71°01'00" ALTITUDE ABOVE SEA LEVEL 12 feet

3. DESCRIPTION

SHAPE Irregular

TOTAL AREA OF FIELD 29 Agres

AREA AVAILABLE FOR LANDING AND TAKING-OFF 28 Acres

TYPE OF SOIL Sand and elay fill GRADIENT Level

NATURE OF SURFACE Sandy elay

IS IT AN ALL-WAY FIELD Yes IS LANDING AREA FENCED No

SURROUNDING PROPERTY OWNED OR CONTROLLED BY OWNER OR OPERATOR No

IS THIS PROPERTY ZONED No

IN WHAT DIRECTION IS LAND AVAILABLE FOR EXPANSION 1000' to North

4. DRAINAGE

WHAT TYPE IS PRESENT DRAINAGE SYSTEM Natural
IS THIS ADEQUATE FOR ORDINARY WEATHER CONDITIONS

DOES WATER STAND ON FIELD In one low spot in N.E. corner

IS FIELD SUBJECT TO PERIODIC FLOODING Yes, when tide water overflows dykes during exceptionally high tides.

IS FIELD USEABLE DURING THAWS Yes

SERVICING--Day Yes

Night No

REPATRS

Days only

REPAIR FACILITIES -- Engine

Yes, major and minor repairs

GASOLINE Yes

OCTANE RATING

73%

ARE SPARE PARTS AVAILABLE

Yes

120

HANGAR STORAGE CHARGES \$15.00 to \$25.00 per month

Airoraft

ADMINISTRATION BUILDING Yes REST ROOMS Yes RESTAURANT No

Yes

IS RAILROAD SIDING AT AIRPORT No TRANSPORTATION TO CITY By bus service

FIRST AID Yes

FIRE APPARATUS Yes, foamite extinguishers

COMMUNICATION

TELEPHONE CONNECTION

Yes

RADIO No NEAREST EROADCASTING STATIONS

WNAC - Boston - 1230 K.C.

WAAB - Boston - 1110 K.C.

WEEI - Boston - 590 K.C.

ARE WEATHER REPORTS AVAILABLE

Yes, by telephone from Boston

AIRWAY TELETYPE No

VISUAL TRAFFIC CONTROL

No

7•	METEOROLOGICAL DATA	Ann	ual	Winter	Summer	
	PREVAILING WIND DIRECTION	W.	N.W.	N.W.	S.W.	
	PREVAILING WIND PERCENTAGE	16.0	16.7	22.0	18.0	
	RAINFALL AVERAGE, inches	39	.52	13.89	13.45	
	TEM PERATURE, maximum	103	•0	80.0	103.0	
	TEMPERATURE, minimum	-18	.0	-18.0	40.0	

REMARKS: Data obtained from U. S. Weather Bureau records at Boston Climatological data taken over a period of 13 years Wind data taken over a period of 7 years.

8. LANDING STRIPS

None

9. USUAL TAKE-OFF AND LANDING DIRECTIONS AND LENGTHS

N.W. - S.E. 1900 feet

N.E. - S.W. 1900 feet

10. RUNWAYS

None

11. APRONS AND TAXIWAYS

None

12. HANGARS

One 110' x 40' Conorete block hangar with cement floor
One 80' x 60' Wooden hangar with cement floor

13. ADMINISTRATION OR OTHER BUILDINGS

One Administration Building of stude and wood 20' x 30'
One Stock room and repair shop of stude and wood 20' x 50'

14. OBSTRUCTIONS WITHIN A 20 to 1 GLIDING ANGLE

Telephone pole lines, 30' high, on Easterly and North-Easterly side of field.
Houses, 33' high, to South of field.
HANGAR at South-Easterly corner of field.

15. IS LANDING AREA TO BE KEPT CLEAR FOR USE AT ALL TIMES NO

16. MARKING AND IDENTIFICATION

STANDARD CIRCLE No

NAME PAINTED ON HANGAR Dennison Airport

OTHER MARKINGS None

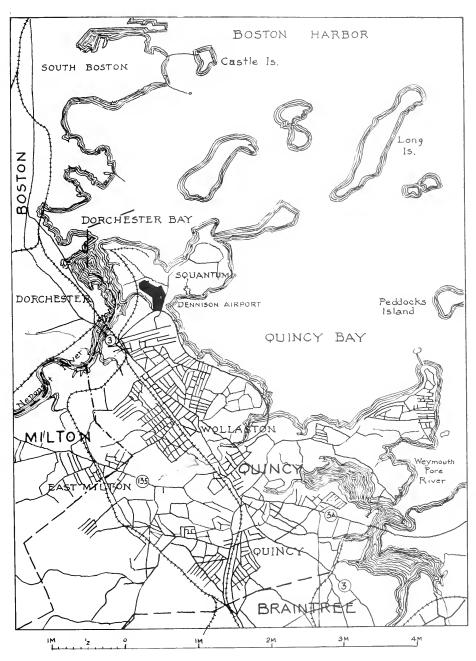
WIND DIRECTION INDICATOR 9' Cone ILLUMINATED Yes

ARE OBSTRUCTIONS MARKED No LIGHTED No

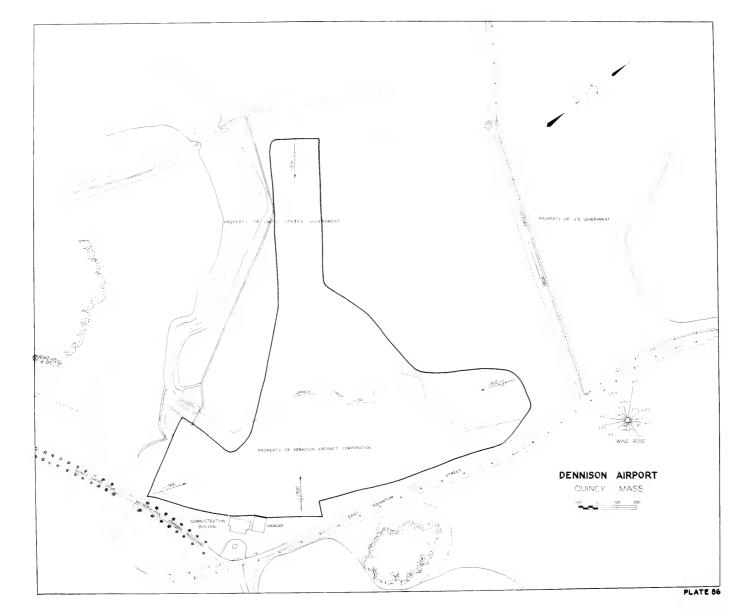
ARE LANDING STRIPS OR RUNWAYS LIGHTED No

17. LIGHTING

This airport is not illuminated for night service.



LOCATION MAP
DENNISON AIRPORT
QUINCY MASS



Yes Night No SERVICING---Day

REPAIRS Days only

Minor only REPAIR FACILITIES---Engine

> Aircraft No

GASOLINE Yes OCTANE RATING 73%

ARE SPARE PARTS AVAILABLE No

HANGAR STORAGE CHARGES \$15.00 per month and up.

\$1.00 per night and up.

ADMINISTRATION BUILDING Yes REST ROOMS Yes

IS RAILROAD SIDING AT AIRPORT No RESTAURANT Adjacent to field TRANSPORTATION TO CITY By taxi, 50¢, 10 minutes

By bus, 10¢, 20 minutes

FIRST AID Yes FIRE APPARATUS

6. COMMUNICATION

TELEPHONE CONNECTION

NEAREST BROADCASTING STATIONS WEEI - Boston - 590 K.C.

Yes

WNAC - Boston - 1230 K.C.

WAAB - Boston - 1410 K.C.

ARE WEATHER REPORTS AVAILABLE Yes, by telephone from Boston VISUAL TRAFFIC CONTROL AIRWAY TELETYPE No

7•	METEOROLOGICAL DATA	Ann	ual	Winter	Summer	
	PREVAILING WIND DIRECTION	W.	N.W.	N.W.	S.W.	
	PREVAILING WIND PERCENTAGE	16.0	16.7	22.0	18.0	
	RAINFALL AVERAGE, inches		.52	13.89	13.45	
	TEMPERATURE, maximum	103.0		80.0	103.0	
	TEMPERATURE, minimum	-18	3.0	-18.0	40.0	

REMARKS: Data obtained from U. S. Weather Bureau Office at East Boston airport. Climatological data taken over a 13 year period

Wind data taken over a period of 7 years.

8. LANDING STRIPS None

9. USUAL TAKE-OFF AND LANDING DIRECTIONS AND LENGTHS

N. - S. 1700 ft.

E. - W. 1400 ft.

N.E. - S.W. 1000 ft.

N.W. - S.E. 1600 ft.

10. RUNWAYS

None

11. APRONS AND TAXIWAYS

None

12. HANGARS

One 60' x 60' Metal hangar with pea stone floor. Hangar door 60' x 12'
One 130' x 30' Wooden hangar with dirt floor. Hangar door 40' x 12'
One 40' x 40' Wooden hangar with dirt floor. Hangar door 40' x 13'

13. ADMINISTRATION OR OTHER BUILDINGS

Office building 22' x 14' x 20' Wooden construction

14. OBSTRUCTIONS WITHIN A 20 TO 1 GLIDING ANGLE None

- (A) GROUND HAZARD Low soft spot at East end of field marked with stone pile and high grass
- 15. IS LANDING AREA TO BE KEPT CLEAR FOR USE AT ALL TIMES Yes

16. MARKING AND IDENTIFICATION

STANDARD CIRCLE No

NAME PAINTED ON HANGAR "Revere" on roof

OTHER MARKINGS None

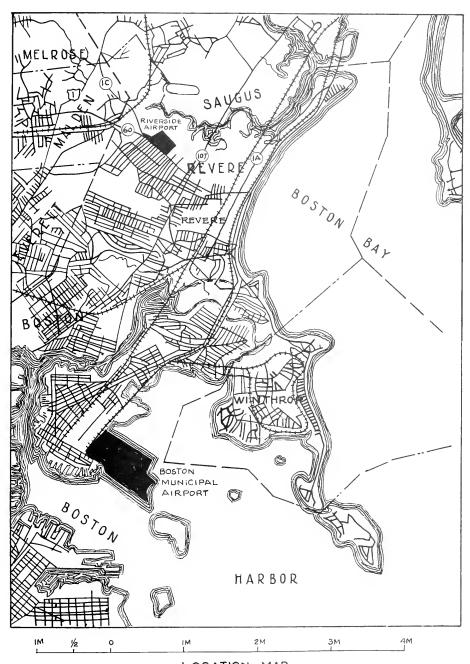
WIND DIRECTION INDICATOR 8' Sock ILLUMINATED No

ARE OBSTRUCTIONS MARKED No LIGHTED No

ARE LANDING STRIPS OR RUNWAYS LIGHTED No

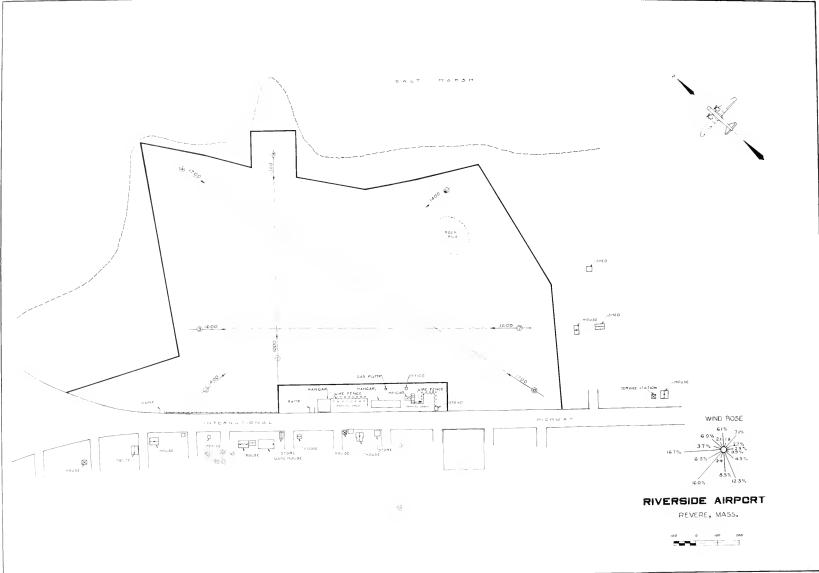
17. LIGHTING

None



RIVERSIDE AIRPORT REVERE MASS.





SEEKONK, MASSACHUSETTS

1. NAME OF AIRPORT Providence Airport CLASS Commercial

OWNER Providence Airport Corp., 507 Union Trust Building,
Providence. R. I.

LESSEE Jesse K. Fenno, 65 Mattewson Road, Barrington, R. I.

OPERATOR Jesse K. Fenno, 65 Mattewson Road, Barrington, R. I.

2. LOCATION

DISTANCE AND DIRECTION BY ROAD FROM CENTER OF CITY 3 miles S.E.

LANDMARKS Providence, R. I. is 7 miles by road and S.E. of airport.

AIRLINE DISTANCE FROM CENTER OF CITY 22 miles from Seekonk

DISTANCE BY ROAD FROM POST OFFICE 3 miles from Seekonk Post Office

NAME AND LOCATION OF ROAD TO NEAREST TOWN Route #6 is adjacent to airport and leads to Seekonk

LATITUDE 41°46'05" LONGITUDE 71°18'15" ALTITUDE ABOVE SEA LEVEL 25 feet

3. DESCRIPTION

SHAPE Irregular

TOTAL AREA OF FIELD 82 Acres

AREA AVAILABLE FOR LANDING AND TAKING-OFF 28 Acres

TYPE OF SOIL Sand GRADIENT Level

NATURE OF SURFACE Sod

IS IT AN ALL-WAY FIELD Yes IS LANDING AREA FENCED No.

IS SURROUNDING PROPERTY OWNED OR CONTROLLED BY OWNER OR OPERATOR
Yes, about 50 acres

IS THIS PROPERTY ZONED No.

IN WHAT DIRECTION IS LAND AVAILABLE FOR EXPANSION South 600' x 1050' and West 700' x 1400'

4. DRAINAGE

WHAT TYPE IS PRESENT DRAINAGE SYSTEM Natural and 600° pipe drain

IS THIS ADEQUATE FOR ORDINARY WEATHER CONDITIONS Yes

DOES WATER STAND ON FIELD No

IS FIELD SUBJECT TO PERIODIC FLOODING No

IS FIELD USEABLE DURING THAWS Yes

SERVICING---Day Yes Night No

REPAIRS-----Day Yes Night No

REPAIR FACILITIES---Engine Yes

Aircraft Yes

GASOLINE Yes OCTANE RATING 73%

ARE SPARE PARTS AVAILABLE Few

HANGAR STORAGE CHARGES \$1.00 per 24 hours and up

ADMINISTRATION BUILDING Yes REST ROOMS Yes RESTAURANT YES IS RAILROAD SIDING AT AIRPORT NO

TRANSPORTATION TO CITY By bus

FIRST AID Yes FIRE APPARATUS Yes

6. COMMUNICATION

TELEPHONE CONNECTION Yes

RADIO No

NEAREST BROADCASTING STATIONS WJAR - Providence - 890 K.C.

WEAN - Providence - 780 K.C. WPRO - Providence - 630 K.C.

ARE WEATHER REPORTS AVAILABLE Yes

AIRWAY TELETYPE No VISUAL TRAFFIC CONTROL NO

7•	METEOROLOGICAL DATA	Annual	Winter	Summer
	PREVAILING WIND DIRECTION	S.W.	N.W.	S.W.
	PREVAILING WIND PERCENTAGE	32.7	38.0	42.1
	RAINFALL AVERAGE, inches	45.94	15.89	15.73
	TEMPERATURE, maximum	99.0	68.0	99.0
	TEMPERATURE, minimum	-18.0	-18.0	37.0

REMARKS: Data obtained from climatological reports of the U. S. Weather Bureau and Cooperative Weather Station at Fall River, Mass.

Climatological data taken over a 13 year period.

Wind data taken over a 10 year period.

8. LANDING STRIPS

None

9. USUAL TAKE-OFF AND LANDING DIRECTIONS AND LENGTHS

N. - S. 1850 ft.

E. - W. 1400 ft.

S.E. - N.W. 1200 ft.

None

11. APRONS AND TAXIWAYS

None

12. HANGARS

One 40' x 90' 12' high. Two 45' doors. Steel and corrugated iron construction. Concrete floor. Truss type wooden roof.

One 50' x 60' 12' high. Door width 60'. Steel and corrugated iron construction. Concrete floor. Truss type wooden roof.

13. ADMINISTRATION OR OTHER BUILDINGS

One Lean-to 40' long, 20' wide, 10' high. Wooden construction, metal covered. Cement floor.

14. OBSTRUCTIONS WITHIN A 20 TO 1 GLIDING ANGLE

35' Pole line on North side, 35' to 40' trees 100' back from field on East, few trees behind hangar on West.

15. IS LANDING AREA TO BE KEPT CLEAR FOR USE AT ALL TIMES

No - use skiis on snow

16. MARKING AND IDENTIFICATION

STANDARD CIRCLE Yes

NAME PAINTED ON HANGAR Yes, "Providence Airport, Seekonk,

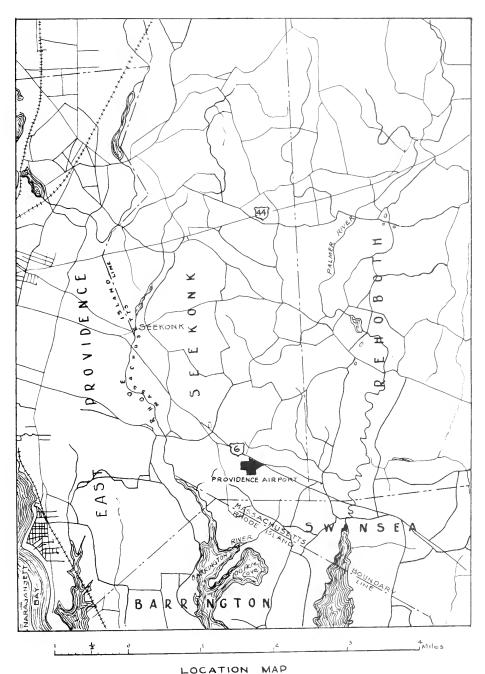
OTHER MARKINGS None

WIND DIRECTION INDICATOR 5' Sock ILLUMINATED No

ARE OBSTRUCTIONS MARKED No LIGHTED No

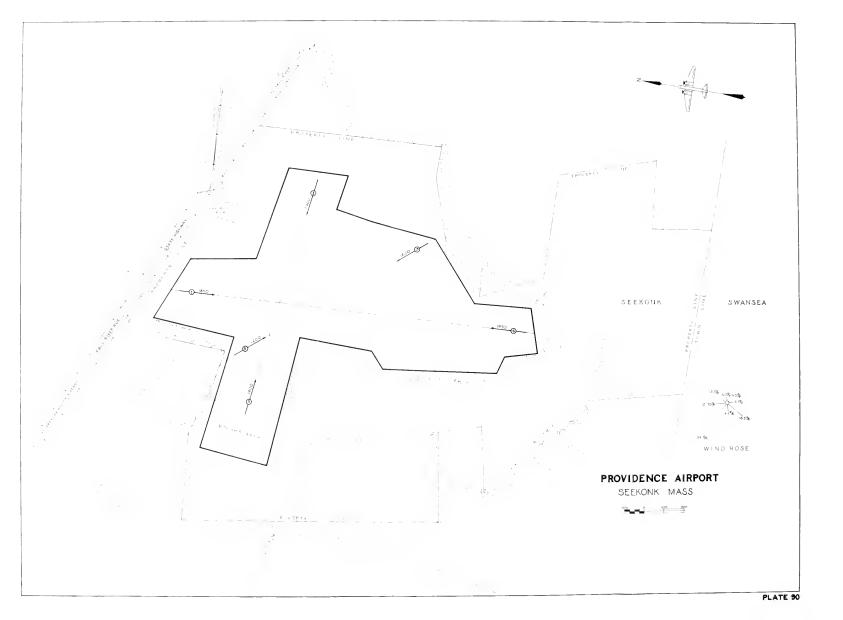
ARE LANDING STRIPS OR RUNWAYS LIGHTED NO

17. LIGHTING



PROVIDENCE AIRPORT
SEEKONK MASS





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SPRINGFIELD, MASSACHUSETTS

1. NAME OF AIRPORT Springfield Airport CLASS Commercial

OWNER Harry Tait Interests and Liberty Realty Company, Springfield, Mass.

LESSEE None

OPERATOR Springfield Airport & Aeronautical School, Inc., 1211 Liberty Street, Springfield, Mass.

2. LOCATION

DISTANCE AND DIRECTION BY ROAD FROM CENTER OF CITY 24 miles N.E.

LANDMARKS Gas tank 3/4 mile S.E., and Westinghouse Radio Towers 1 mile East of airport

AIRLINE DISTANCE FROM CENTER OF CITY 2 miles

DISTANCE BY ROAD FROM POST OFFICE 25 miles

NAME AND LOCATION OF ROAD TO NEAREST TOWN Liberty Street on West side, St. James Street on East side, and Kirby Street on North side.

LATITUDE 42°08'21" LONGITUDE 72°34'12"
ALTITUDE ABOVE SEA LEVEL 200 feet

3. DESCRIPTION

SHAPE Irregular

TOTAL AREA OF FIELD 120 Acres

AREA AVAILABLE FOR LANDING AND TAKING-OFF 86 Acres

TYPE OF SOIL Sandy loam GRADIENT Level

NATURE OF SURFACE Sod

IS IT AN ALL-WAY FIELD Yes IS LANDING AREA FENCED Yes

SURROUNDING PROPERTY OWNED OR CONTROLLED BY OWNER OR OPERATOR No

IS THIS PROPERTY ZONED Yes

IN WHAT DIRECTION IS LAND AVAILABLE FOR EXPANSION South 125', S.E. 700' and West 100'

4. DRAINAGE

WHAT TYPE IS PRESENT DRAINAGE SYSTEM Natural, with a few tile

IS THIS ADEQUATE FOR ORDINARY WEATHER CONDITIONS Yes

DOES WATER STAND ON FIELD NO

IS FIELD SUBJECT TO PERIODIC FLOODING No

5. SERVICE

SERVICING---Day Yes Night Yes

REPAIRS Day and night

REPAIR FACILITIES --- Engine Major and minor

Aircraft Major and minor

GASOLINE Yes OCTANE RATING 73, 80 and 87% ARE SPARE PARTS AVAILABLE Yes

HANGAR STORAGE CHARGES \$1.50 per night and up

ADMINISTRATION BUILDING Yes REST ROOMS Yes RESTAURANT Yes
IS RAILROAD SIDING AT AIRPORT No
TRANSPORTATION TO CITY By bus and taxi service

FIRST AID Yes FIRE APPARATUS Yes, foamite extinguishers

6. COMMUNICATION

TELEPHONE CONNECTION Yes
RADIO Receivers only

NEAREST BROADCASTING STATIONS WSPR - Springfield - 1140 K.C.

WBZA - Springfield - 990 K.C.

ARE WEATHER REPORTS AVAILABLE By teletype from Boston, Albany

and Newark
AIRWAY TELETYPE Yes VISUAL TRAFFIC CONTROL No

7.	METEOROLOGICAL DATA	Annual	Winter	Summer
	PREVAILING WIND DIRECTION	N.W.	N.W.	N.W.
	PREVAILING WIND PERCENTAGE	39 .7	44.2	32.9
	RAINFALL AVERAGE, inches	39.27	13.10	16.20
	TEMPERATURE, maximum	104.0	74.0	104.0
	TEMPERATURE, minimum	-18.0	-18.0	30.0

REMARKS: Climatological data obtained from the U. S. Weather
Bureau Stations at Boston and Springfield.
Climatological data taken over a 13 year period.
Wind data taken over a 13 year period.

8. LANDING STRIPS

None

9. USUAL TAKE-OFF AND LANDING DIRECTIONS AND LENGTHS

N.E. - S.W. 2900 ft. N.W. - S.E. 2200 ft. N. - S. 2250 ft. F. - W. 2500 ft.

None

11. APRONS AND TAXIWAYS

850' x 135' Macadam in front of Administration Building 100' x 20' Cement in front of East Hangar

12. HANGARS

One 138' x 128' Cement Hangar
One 125' x 80' Wooden Hangar Factory and repair shop

13. ADMINISTRATION OR OTHER BUILDINGS

One 100' x 60' Wooden Administration Building

14. OBSTRUCTIONS WITHIN A 20 TO 1 GLIDING ANGLE

Houses to North and N.W. of field, 30' high Pole lines North and West of field, 30' high

15. IS LANDING AREA TO BE KEPT CLEAR FOR USE AT ALL TIMES Yes

16. MARKING AND IDENTIFICATION

STANDARD CIRCLE Yes

NAME PAINTED ON HANGAR "Springfield Airport" with N arrow

OTHER MARKINGS None

WIND DIRECTION INDICATOR Wind Sock and "T" ILLUMINATED Yes

ARE OBSTRUCTIONS MARKED No LIGH

LIGHTED Yes

ARE LANDING STRIPS OR RUNWAYS LIGHTED Landing strips codified with green lights

17. LIGHTING

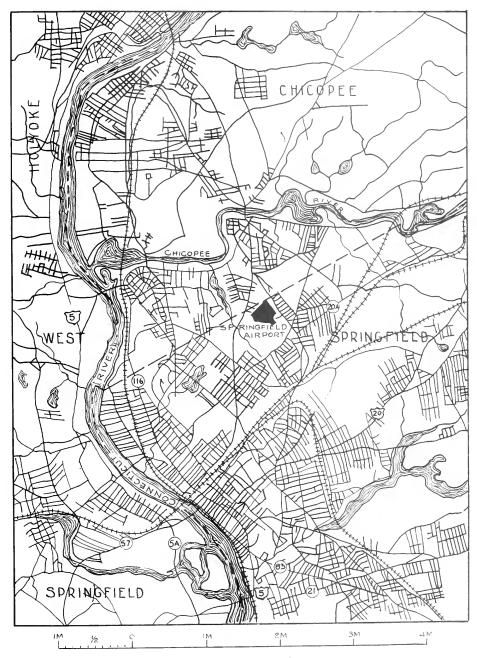
Ten green approach lights located at NE-SW and NW-SE runways. One 24" single rotating beacon located on top of hangar E side of field.

One "S-A" code beacon located on top of hangar E side of field Thirty two 60 watt multiple plain boundary lights.

One group of 6 hood floodlights for landing.

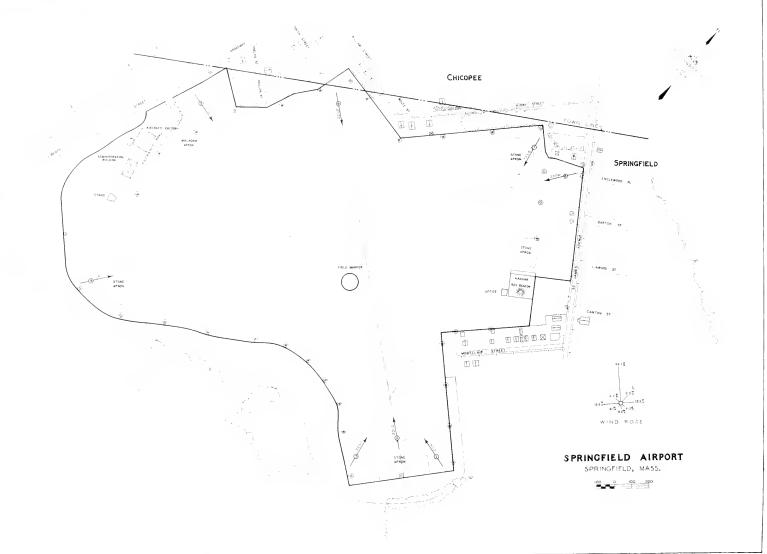
Ceiling projector.

Automatic lamp changer.



LOCATION MAP
SPRINGFIELD AIRPORT
SPRINGFIELD MASS

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				4.
	de.			

TAUNTON, MASSACHUSETTS

1. NAME OF AIRPORT King Field CLASS Commercial

OWNER Henry King, 703 Middleboro Ave., E. Taunton, Mass.

LESSEE City of Taunton, City Hall, Taunton, Mass.

OPERATOR Henry King, 703 Middleboro Ave., E. Taunton, Mass.

2. LOCATION

DISTANCE AND DIRECTION BY ROAD FROM CENTER OF CITY $5\frac{1}{4}$ miles East LANDMARKS $\frac{1}{8}$ mile South of N.Y.N.H. & H. R.R. and Taunton River AIRLINE DISTANCE FROM CENTER OF CITY $\frac{1}{4}$ miles from Taunton DISTANCE BY ROAD FROM POST OFFICE $\frac{1}{2}$ miles from Taunton Post

Office

NAME AND LOCATION OF ROAD TO NEAREST TOWN Airport is on Middle-boro Avenue, the main highway from Taunton to Middleboro.

LATITUDE 41°53'00" LONGITUDE 71°01'00"
ALTITUDE ABOVE SEA LEVEL 45 feet

3. DESCRIPTION

SHAPE Irregular

TOTAL AREA OF FIELD 48.5 Acres

AREA AVAILABLE FOR LANDING AND TAKING-OFF 38.1 Aores

TYPE OF SOIL Sandy gravel GRADIENT N.E. - S.W. .6%
N.W. - S.E. Level

NATURE OF SURFACE Sod

IS IT AN ALL-WAY FIELD No IS LANDING AREA FENCED No

SURROUNDING PROPERTY OWNED OR CONTROLLED BY OWNER OR OPERATOR
Yes. to South and S.W.

IS THIS PROPERTY ZONED Yes

IN WHAT DIRECTION IS LAND AVAILABLE FOR EXPANSION To South and S.W.

4. DRAINAGE

WHAT TYPE IS PRESENT DRAINAGE SYSTEM Natural, except for tile drains at N. E. corner

IS THIS ADEQUATE FOR ORDINARY WEATHER CONDITIONS Yes

DOES WATER STAND ON FIELD No

IS FIELD SUBJECT TO PERIODIC FLOODING No

5. SERVICE

SERVICING---Day Yes Night Yes

REPAIRS Yes, major and minor repairs

REPAIR FACILITIES --- Engine Yes

Aircraft Yes

GASOLINE Yes OCTANE RATING 73%

ARE SPARE PARTS AVAILABLE Yes

HANGAR STORAGE CHARGES \$10.00 per month and up

ADMINISTRATION BUILDING No REST ROOMS No RESTAURANT No IS RAILROAD SIDING AT AIRPORT No

TRANSPORTATION TO CITY By bus and taxi

FIRST AID Yes FIRE APPARATUS Yes

6. COMMUNICATION

TELEPHONE CONNECTION Yes

RADIO No

NEAREST BROADCASTING STATIONS WBZ - Boston - 990 K.C.

WNBH - New Bedford - 1310 K.C. WSAR - Fall River - 1450 K.C.

ARE WEATHER REPORTS AVAILABLE
AIRWAY TELETYPE
No
VISUAL TRAFFIC CONTROL
No

7. METEOROLOGICAL DATA Annual Winter Summer

PREVAILING WIND DIRECTION	S.W.	N.W.	N.W.	S.W.
PREVAILING WIND PERCENTAGE	21.2	20.1	27.4	26.3
RAINFALL AVERAGE, inches	44	.70	14.12	15.47
TEMPERATURE, maximum	98.	.0	73.0	98.0
TEMPERATURE, minimum	-24	0	-24.0	24.0

REMARKS: Climatological data obtained from U. S. Weather Pureau at Boston, and the Taunton Water Works.

Climatological data taken over an 11 year period.

Wind data taken over a 10 year period.

8. LANDING STRIPS

One landing strip 300' wide and 2100' long N.E. - S.W.

9. USUAL TAKE-OFF AND LANDING DIRECTIONS AND LENGTHS

N.E. - S.W. 2300 ft.

N.W. - S.E. 1300 ft.

None

11. APRONS AND TAXIWAYS

None

12. HANGARS

One 60' x 80' Metal frame hangar. Asbestos covered.

13. ADMINISTRATION OR OTHER BUILDINGS

One Wooden building 30' x 60'

14. OBSTRUCTIONS WITHIN A 20 TO 1 GLIDING ANGLE

Electric light wires East of field Trees 35' high at S.E. and North corners of field

15. IS LANDING AREA TO BE KEPT CLEAR FOR USE AT ALL TIMES No

16. MARKING AND IDENTIFICATION

STANDARD CIRCLE No

NAME PAINTED ON HANGAR "King Field" on side of hangar

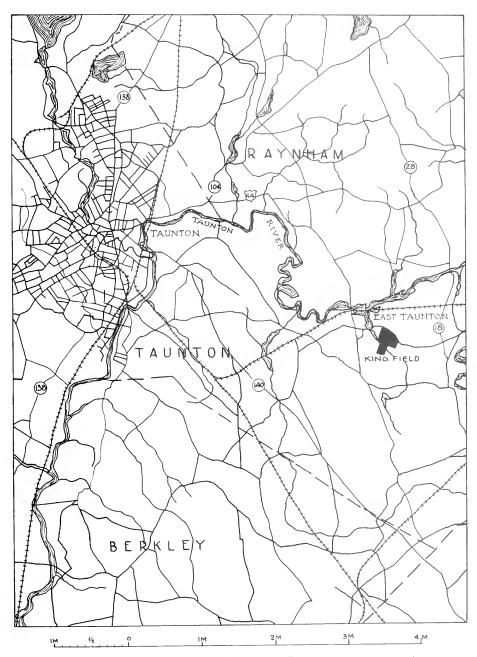
OTHER MARKINGS None

WIND DIRECTION INDICATOR 6' Sock ILLUMINATED No

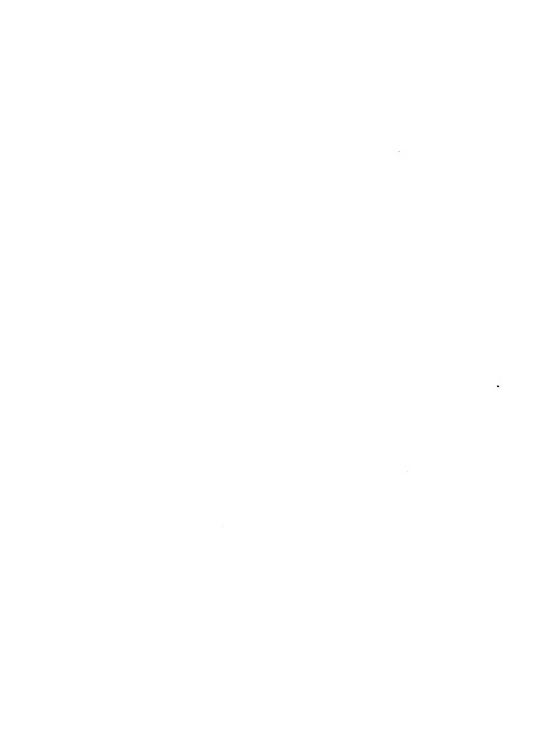
ARE OBSTRUCTIONS MARKED No LIGHTED No

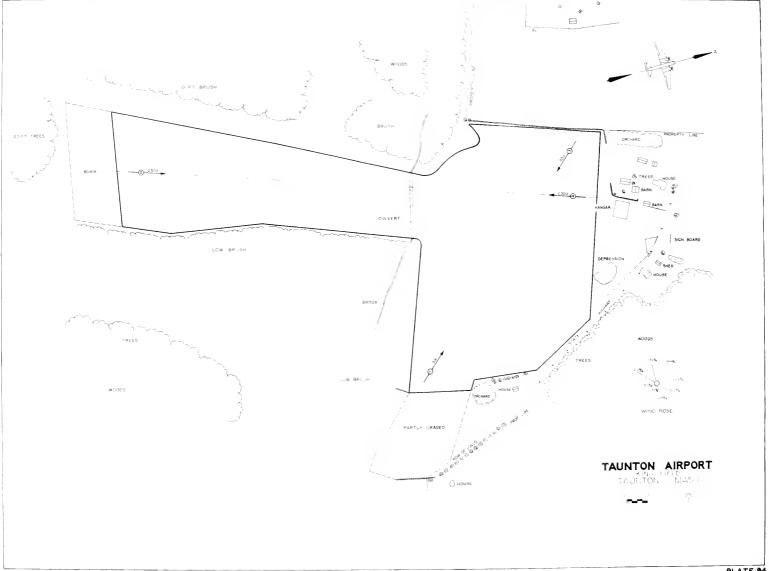
ARE LANDING STRIPS OR RUNWAYS LIGHTED No

17. LIGHTING



LOCATION MAP
KING FIELD
TAUNTON MASS





TEMPLETON, MASSACHUSETTS

1. NAME OF AIRPORT Gardner Airport CLASS Commercial

OWNER Gardner Airport Corp. (C. Henry Hartshorn, Jr.) Gardner,

LESSEE J. H. Hall, Gardner, Mass.

OPERATOR J. H. Hall, Gardner, Mass.

2. LOCATION

DISTANCE AND DIRECTION BY ROAD FROM CENTER OF CITY

LANDMARKS Dolbier Hill, 1280' elevation, 2 miles S.W. and Mt. Wachusett, 1925' elevation, 8 miles S.E.

AIRLINE DISTANCE FROM CENTER OF CITY 2 miles to Gardner DISTANCE BY ROAD FROM POST OFFICE $2\frac{1}{2}$ miles to Gardner Post Office

NAME AND LOCATION OF ROAD TO NEAREST TOWN Town road to Route #2
North of airport, to Gardner

LATITUDE 42°32'25" LONGITUDE 72°01'52" ALTITUDE ABOVE SEA LEVEL 10h0 feet

DESCRIPTION

SHAPE Irregular

TOTAL AREA OF FIELD 28.5 Acres

AREA AVAILABLE FOR LANDING AND TAKING-OFF 27 Acres

TYPE OF SOIL Sand GRADIENT 1%

NATURE OF SURFACE Sod IS LANDING AREA FENCED No

SURROUNDING PROPERTY OWNED OR CONTROLLED BY OWNER OR OPERATOR Yes

IS THIS PROPERTY ZONED No

IN WHAT DIRECTION IS LAND AVAILABLE FOR EXPANSION To South and West, about 1200'.

4. DRAINAGE

WHAT TYPE IS PRESENT DPAINAGE SYSTEM Natural

IS THIS ADEQUATE FOR ORDINARY WEATHER CONDITIONS Yes

DOES WATER STAND ON FIELD No

IS FIELD SUBJECT TO PERIODIC FLOODING No

SERVICE

None

SERVICING --- Day

Night

REPAIRS

None

REPAIR FACILITIES --- Engine

Aircraft

GASOL INE Yes OCTANE RATING

73%

ARE SPARE PARTS AVAILABLE

HANGAR STORAGE CHARGES

\$1.00 per night and up

REST ROOMS

ADMINISTRATION BUILDING Office in hangar IS RAILROAD SIDING AT AIRPORT No

RESTAURANT

No No

TRANSPORTATION TO CITY Taxi service

FIRST AID Yes FIRE APPARATUS

Yes

COMMUNICATION

TELEPHONE CONNECTION

Yes

RADIO

No NEAREST BROADCASTING STATIONS

WORC - Worcester - 1280 K.C.

WTAG - Worcester - 580 K.C.

WEATHER REPORTS AVAILABLE By phone, from Boston or Springfield AIRWAY TELETYPE No

VISUAL TRAFFIC CONTROL

7•	METEOROLOGICAL DATA	Annual	Winter	Summer
	PREVAILING WIND DIRECTION	N.W.	N.W.	N.W.
	PREVAILING WIND PERCENTAGE	43.5	51.3	35.4
	RAINFALL AVERAGE, inches	43.61	15.45	14.97
	TEMPERATURE, maximum	98.0	73.0	98.0
	TEMPERATURE, minimum	-16.0	-16.0	29.0

REMARKS: Data obtained from U. S. Weather Bureau climatological reports, and the Fitchburg Sewage Disposal Plant, Lunenburg, Mass. Climatological data taken over a 13 year period. Wind data taken over a 10 year period.

8. LANDING STRIPS

None

9. USUAL TAKE-OFF AND LANDING DIRECTIONS AND LENGTHS

N - S 1800'

NE - SW 1500'

E - W 11001

None

11. APRONS AND TAXIWAYS

None

12. HANGARS

One 60' x 40' Metal Hangar Tar Floor Unheated

13. ADMINISTRATION OR OTHER BUILDINGS

Lean-to part of metal hangar 40' x 20' Office is in 12' x 12' section of Lean-to

14. OBSTRUCTIONS WITHIN A 20 TO 1 GLIDING ANGLE

Two hills North and Northeast of airport, about 100 high

15. IS LANDING AREA TO BE KEPT CLEAR FOR USE AT ALL TIMES Yes

16. MARKING AND IDENTIFICATION

STANDARD CIRCLE No

NAME PAINTED ON HANGAR "Gardner Airport"

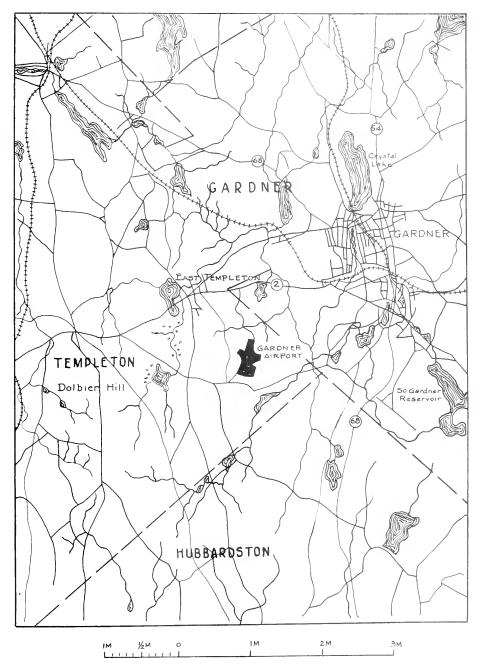
OTHER MARKINGS None

WIND DIRECTION INDICATOR Wind Sock ILLUMINATED No

ARE OBSTRUCTIONS MARKED No LIGHTED No

ARE LANDING STRIPS OR RUNWAYS LIGHTED No

17. LIGHTING

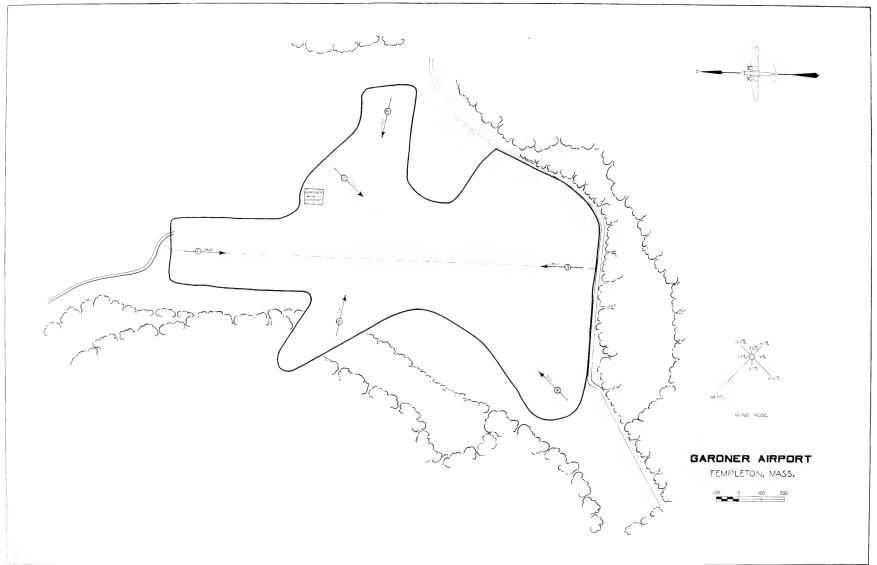


LOCATION MAP

GARDNER AI TEMPLETON MASS

AIRPORT





WESTBOROUGH, MASSACHUSETTS

1. NAME OF AIRPORT Turnpike Airport CLASS Commercial

OWNER Mrs. Robert Robinson, 96 Converse Avenue, Malden, Mass.

LESSEE Desjardin Flying Service, Inc., 181 Grafton Street, Worcester, Mass.

OPERATOR Desjardin Flying Service, Inc., 181 Grafton Street, Worcester, Mass.

2. LOCATION

DISTANCE AND DIRECTION BY ROAD FROM CENTER OF CITY

7 miles East of Worcester. 2 miles N.W. of Westborough

LANDMARKS Worcester Turnpike $\frac{1}{4}$ mile N.W. Homomenco Pond South of and adjacent to airport

AIRLINE DISTANCE FROM CENTER OF CITY 12 miles to Westborough

DISTANCE BY ROAD FROM POST OFFICE 2 miles to Westborough Post Office

NAME AND LOCATION OF ROAD TO NEAREST TOWN Otis Street on East of airport leads to Worcester Turnpike, Route #9

LATITUDE 42°17'00" LONGITUDE 71°39'00" ALTITUDE ABOVE SEA LEVEL 310 feet

3. DESCRIPTION

SHAPE Irregular

TOTAL AREA OF FIELD 42.3 Acres

AREA AVAILABLE FOR LANDING AND TAKING-OFF 25 Acres

TYPE OF SOIL Sandy loam GRADIENT Level (See #14)

NATURE OF SURFACE Sod

IS IT AN ALL-WAY FIELD Yes IS LANDING AREA FENCED NO SURROUNDING PROPERTY OWNED OR CONTROLLED BY OWNER OR OPERATOR Yes, to S. W.

IS THIS PROPERTY ZONED No

IN WHAT DIRECTION IS LAND AVAILABLE FOR EXPANSION About 35 acres to S. W.

4. DRAINAGE

WHAT TYPE IS PRESENT DRAINAGE SYSTEM Natural

IS THIS ADEQUATE FOR ORDINARY WEATHER CONDITIONS Yes

DOES WATER STAND ON FIELD No

IS FIELD SUBJECT TO PERIODIC FLOODING No

5. SERVICE Phone Desjardin Auto Service in Worcester. Tel. 4-6303.

SERVICING---Day Yes Night No

REPAIRS

Days only

REPAIR FACILITIES --- Engine

Major and minor

Aircraft Major and minor

GASOLINE Yes

OCTANE RATING 73%

Yes

ARE SPARE PARTS AVAILABLE

No

HANGAR STORAGE CHARGES \$15.00 per month

ADMINISTRATION BUILDING Yes REST ROOMS Yes RESTAURANT No IS RAILROAD SIDING AT AIRPORT No TRANSPORTATION TO CITY By taxi to Worcester, \$1.50

FIRST AID No

FIRE APPARATUS

6. COMMUNICATION

TELEPHONE CONNECTION In nearby farmhouse

RADIO No

NEAREST BROADCASTING STATIONS WORC - Worcester - 1280 K.C.

WTAG - Worcester - 580 K.C.

ARE WEATHER REPORTS AVAILABLE YOU AIRWAY TELETYPE NO

Yes, by telephone from Boston VISUAL TRAFFIC CONTROL No

7.	METEOROLOGICAL DATA	Annual	Winter	Summer
	PREVAILING WIND DIRECTION	W•	N.W.	w
	PREVAILING WIND PERCENTAGE	19.4		
	RAINFALL AVERAGE, inches	45.13	14.36	15.50
	TEMPERATURE, maximum	98.0	78.0	98.0
	TEMPERATURE, minimum	-20.0	-20.0	32.0

REMARKS: Data obtained from records of Meteorological Station at Clark University, Worcester, Mass., and climatological reports of the U. S. Weather Bureau.

Climatological data taken over a 13 year period.

Wind data taken over a 15 year period.

8. LANDING STRIPS

None

9. USUAL TAKE-OFF AND LANDING DIRECTIONS AND LENGTHS

E. - W. 1050 ft.

N.E. - S.W. 1300 ft.

N.W. - S.E. 1000 ft.

None

11. APRONS AND TAXIWAYS

None

12. HANGARS

One 40' x 40' Metal hangar with dirt floor, with 60' x 30' metal ell at rear and side of hangar with dirt floor. Unheated

13. ADMINISTRATION OR OTHER BUILDINGS

22' x 14' x 10' Wooden office building

14. OBSTRUCTIONS WITHIN A 20 TO 1 GLIDING ANGLE

21' Telephone line to East

60' Watertower, 1500' to South

Low trees to West and N.W.

Ground hazards. Two gullies, 15' deep, on S.E. side.

15. IS LANDING AREA TO BE KEPT CLEAR FOR USE AT ALL TIMES

Yes, except snow

16. MARKING AND IDENTIFICATION

STANDARD CIRCLE No

NAME PAINTED ON HANGAR None

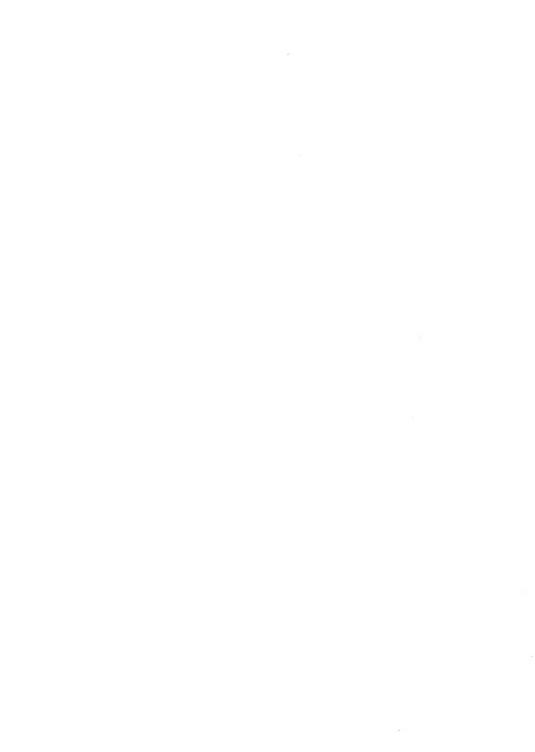
OTHER MARKINGS None

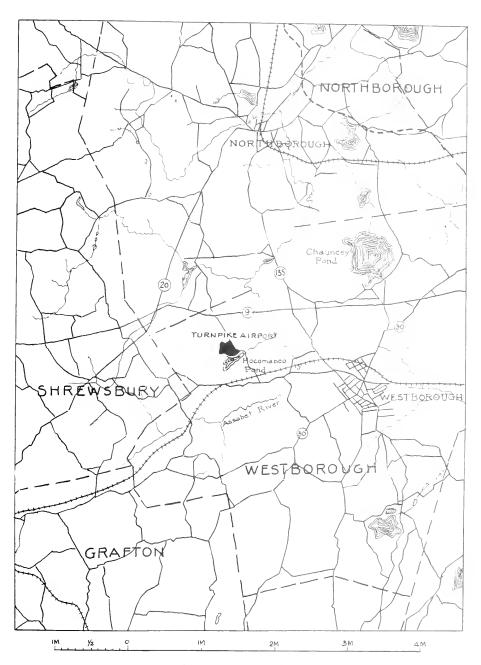
WIND DIRECTION INDICATOR 6' Sock ILLUMINATED No

ARE OBSTRUCTIONS MARKED No LIGHTED No

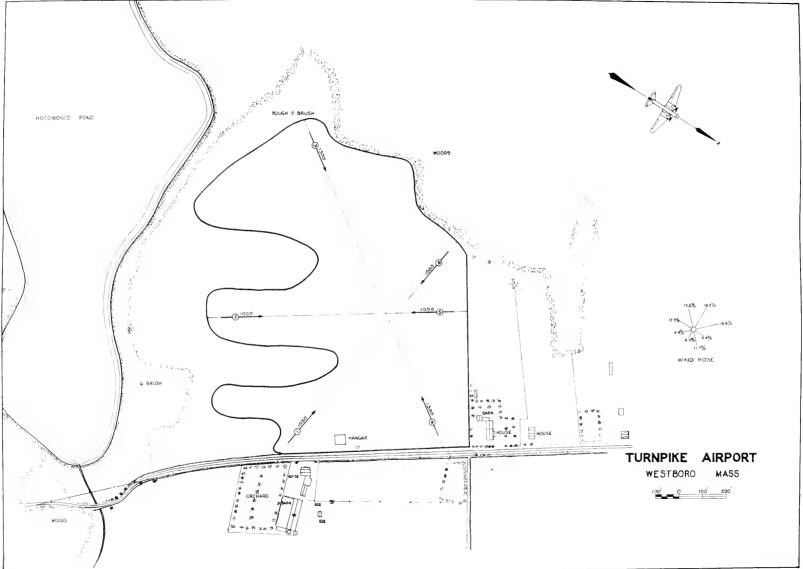
ARE LANDING STRIPS OR RUNWAYS LIGHTED No

17. LIGHTING





TURNPIKE AIRPORT
WESTBOROUGH MASS





WEST BROOKFIELD, MASSACHUSETTS

1. NAME OF AIRPORT Brookfield Airport (Edson Field)

OWNER William A. Edson, Brookfield, Mass. CLASS Commercial LESSEE Hagburg Flying Service, Valley Airport, Palmer, Mass. OPERATOR Hagburg Flying Service, Valley Airport, Palmer, Mass.

2. LOCATION

DISTANCE AND DIRECTION BY ROAD FROM CENTER OF CITY $1\frac{1}{2}$ miles West of Brookfield

LANDMARKS Quaboag River is South of airport. B. & A. R.R. is South and adjacent to airport

AIRLINE DISTANCE FROM CENTER OF CITY 14 miles West of Brookfield

DISTANCE BY ROAD FROM POST OFFICE 12 miles West of Brookfield
Post Office

NAME AND LOCATION OF ROAD TO NEAREST TOWN Town road from airport to Route #9 to Worcester

LATITUDE 42°13'00" LONGITUDE 72°07'00" ALTITUDE ABOVE SEA LEVEL 640 feet

DESCRIPTION

SHAPE Irregular

TOTAL AREA OF FIELD LL Acres

AREA AVAILABLE FOR LANDING AND TAKING-OFF 22 Acres

TYPE OF SOIL Loam over sand and gravel GRADIENT 0.5% W. to E.

NATURE OF SURFACE Sod

IS IT AN ALL-WAY FIELD NO IS LANDING AREA FENCED NO

SURROUNDING PROPERTY OWNED OR CONTROLLED BY OWNER OR OPERATOR
To the East only

IS THIS PROPERTY ZONED No

IN WHAT DIRECTION IS LAND AVAILABLE FOR EXPANSION

To the East 2000 feet

4. DRAINAGE

WHAT TYPE IS PRESENT DRAINAGE SYSTEM Natural

IS THIS ADEQUATE FOR ORDINARY WEATHER CONDITIONS Yes

DOES WATER STAND ON FIELD No

IS FIELD SUBJECT TO PERIODIC FLOODING No

IS FIELD USEABLE DURING THAWS Yes

5. SERVICE

SERVICING---Day No Night No

REPAIRS No

REPAIR FACILITIES---Engine No

Aircraft No

GASOLINE In town OCTANE RATING 73%

ARE SPARE PARTS AVAILABLE No HANGAR STORAGE CHARGES No hangar

ADMINISTRATION BUILDING NO REST ROOMS NO RESTAURANT NO IS RAILROAD SIDING AT AIRPORT NO

TRANSPORTATION TO CITY By taxi

FIRST AID No FIRE APPARATUS No

6. COMMUNICATION

TELEPHONE CONNECTION No

RADIO No

NEAREST BROADCASTING STATIONS WTAG - Worcester - 580 K.C.

WORC - Worcester - 1280 K.C.

ARE WEATHER REPORTS AVAILABLE No

AIRWAY TELETYPE No VISUAL TRAFFIC CONTROL No

7. METEOROLOGICAL DATA Annual Winter Summer PREVAILING WIND DIRECTION W. N.W. W. PREVAILING WIND PERCENTAGE 19.4 RAINFALL AVERAGE, inches 45.13 TEMPERATURE, maximum 99.0 TEMPERATURE, minimum -20.0

REMARKS: Data obtained from Clark University and climatological reports of U. S. Weather Bureau.

Climatological data taken over a 13 year period.

Wind data taken over a 15 year period.

8. LANDING STRIPS

None

9. USUAL TAKE-OFF AND LANDING DIRECTIONS AND LENGTHS

N.W. - S.E. 1500 feet

N.E. - S.W. 1050 feet

10. RUNWAYS

None

11. APRONS AND TAXIWAYS

None

12. HANGARS

None

13. ADMINISTRATION OR OTHER BUILDINGS

None

14. OBSTRUCTIONS WITHIN A 20 TO 1 GLIDING ANGLE

67' Trees to the North

Pole line to the South

15. IS LANDING AREA TO BE KEPT CLEAR FOR USE AT ALL TIMES NO

16. MARKING AND IDENTIFICATION

STANDARD CIRCLE No

NAME PAINTED ON HANGAR No

OTHER MARKINGS None

WIND DIRECTION INDICATOR 8' Sock on 30' tower, and 8' arrow weathervane under sock ILLUMINATED No

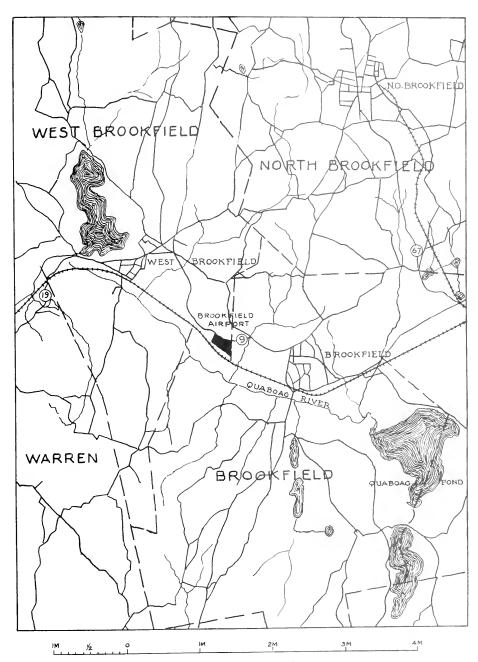
ARE OBSTRUCTIONS MARKED No LIGHTED No

ARE LANDING STRIPS OR RUNWAYS LIGHTED No

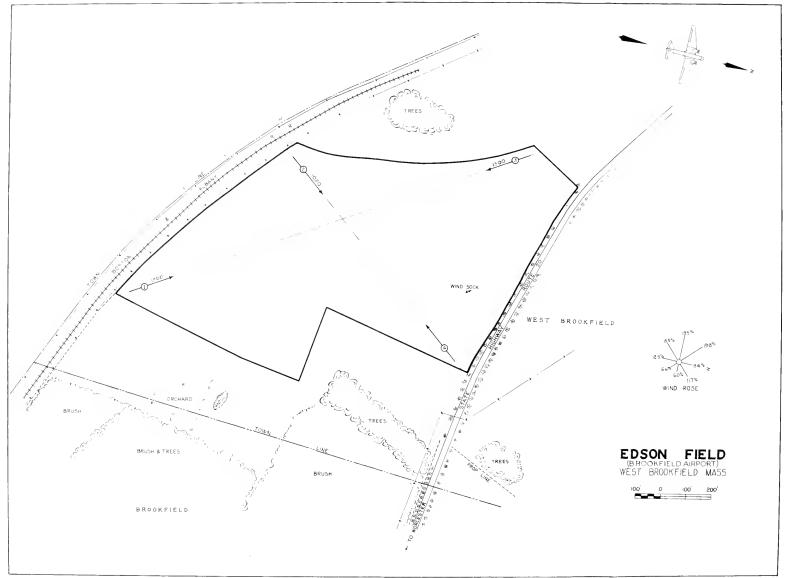
17. LIGHTING

None





BROOKFIELD AIRPORT WEST BROOKFIELD MASS.



WESTFIELD, MASSACHUSETTS

1. NAME OF AIRPORT Barnes Airport CLASS Municipal

OWNER City of Westfield, Mass.

LESSEE None

OPERATOR Barnes Air Service Co., Parnes Airport, Westfield, Mass.

2. LOCATION

DISTANCE AND DIRECTION BY ROAD FROM CENTER OF CITY

2 miles N.E. of Westfield. 6 miles S.W. of Holyoke.

7 miles N.W. of Springfield.

LANDMARKS N.Y.N.H. & H. R.R. 2 miles South and West

AIRLINE DISTANCE FROM CENTER OF CITY 2 miles

DISTANCE BY ROAD FROM POST OFFICE 3 miles

NAME AND LOCATION OF ROAD TO NEAREST TOWN
Route #202 is West of airport to Westfield

LATITUDE 4209:19" LONGITUDE 72042:42"
ALTITUDE ABOVE SEA LEVEL 280 feet

3. DESCRIPTION

SHAPE Irregular

TOTAL AREA OF FIELD 115 Acres

AREA AVAILABLE FOR LANDING AND TAKING-OFF 115 Acres

TYPE OF SOIL Gravel GRADIENT Level

NATURE OF SURFACE Sod

IS IT AN ALL-WAY FIELD No IS LANDING AREA FENCED NO

SURROUNDING PROPERTY OWNED OR CONTROLLED BY OWNER OR OPERATOR No.

IS THIS PROPERTY ZONED Yes

IN WHAT DIRECTION IS LAND AVAILABLE FOR EXPANSION To S.E. and S., 1000 feet.

4. DRAINAGE

WHAT TYPE IS PRESENT DRAINAGE SYSTEM Natural

IS THIS ADEQUATE FOR ORDINARY WEATHER CONDITIONS No

DOES WATER STAND ON FIELD Yes FIELD USEABLE DURING THAWS NO IS FIELD SUBJECT TO PERIODIC FLOODING Yes, after storms

5. SERVICE

SERVICING--Day Yes Night No

REPAIRS Days only

REPAIR FACILITIES -- Engine Major and minor

Aircraft Major and minor

GASOLINE Yes OCTANE RATING 73 and 80%
ARE SPARE PARTS AVAILABLE Yes
HANGAR STORAGE CHARGES \$1.50 and \$2.50 per night
ADMINISTRATION BUILDING Yes REST ROCMS
IS RAILROAD SIDING AT AIRPORT Yes
TRANSPORTATION TO CITY By private car. Bus log to Westfield,
tem minutes.

FIRST AID Yes, hospital opposite field FIRE APPARATUS Yes

6. COMMUNICATION

TELEPHONE CONNECTION Yes

RADIO No

NEAREST EROADCASTING STATIONS WSFR - Springfield - 1140 K.C. WBZA - Springfield - 990 K.C.

ARE WEATHER REPORTS AVAILABLE Yes, by telephone from Boston and Springfield.

AIRWAY TELETYPE No VISUAL TRAFFIC CONTROL No

7.	METEOROLOGICAL DATA	Annual	Winter	Summer
	PREVAILING WIND DIRECTION	N.W.	N.W.	N.W.
	PREVAILING WIND PERCENTAGE	39 .7	44.2	32.9
	RAINFALL AVERAGE, inches	39.27	13.10	16.20
	TEMPERATURE, maximum	104.0	74.0	104.0
	TEMPERATURE, minimum	-18-0	-18.0	30.0

REMARKS: Data obtained from Cooperative U. S. Weather Bureau Station at Springfield, Mass., and climatological reports of U. S. Weather Bureau.

Climatological data taken over a 13 year period.

Wind data taken over a 13 year period.

8. LANDING STRIPS

N.W. - S.E. 3500 x 300 ft.) Construction now going on, widening
N.E. - S.W. 3000 x 300 ft.) strips to 500 feet and building N.E.E. - W. 2600 x 300 ft.) S.W. strip to 3500 feet in length.
Standard angle markers used on all

strips.

9. USUAL TAKE-OFF AND LANDING DIRECTIONS AND LENGTHS None

10.	RUNWAYS

None

11. APRONS AND TAXIWAYS

None

12. HANGARS

One 60' x 80' Brick and metal hangar with concrete floor and metal and wood roof. Unheated. Hangar door 80' x 20'.

13. ADMINISTRATION OR OTHER BUILDINGS

20' x 15' x 10' Lean-to. Brick and steel construction.

14. OBSTRUCTIONS WITHIN A 20 TO 1 GLIDING ANGLE

None

15. IS LANDING AREA TO BE KEPT CLEAR FOR USE AT ALL TIMES No

16. MARKING AND IDENTIFICATION

STANDARD CIRCLE No

NAME PAINTED ON HANGAR "Barnes Municipal Airport - Westfield" on roof.

OTHER MARKINGS None

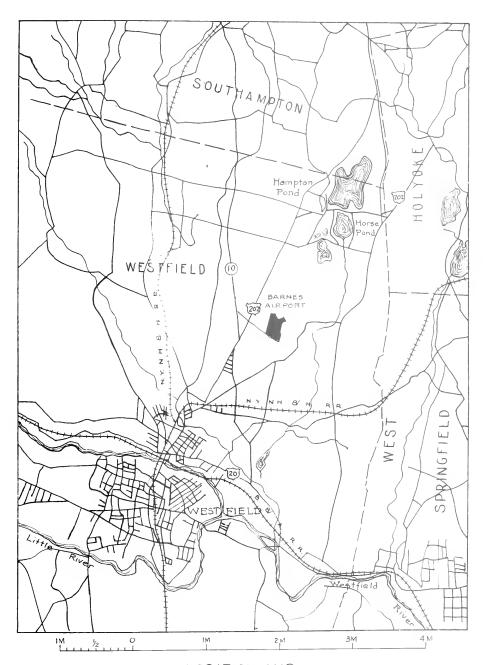
WIND DIRECTION INDICATOR 8' Sock ILLUMINATED No

ARE OBSTRUCTIONS MARKED No LIGHTED No

ARE LANDING STRIPS OR RUNWAYS LIGHTED No

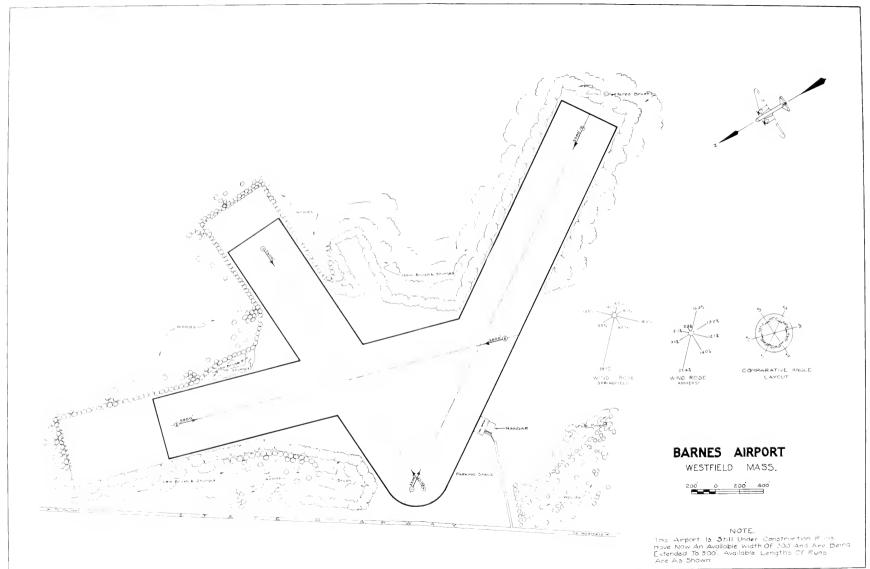
17. LIGHTING

No lights



BARNES AIRPORT
WESTFIELD MASS

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INACTIVE AND PRIVATE AIRPORTS

The following is a list of airports classed either as inactive, unsafe or not open to public use.

BARNSTABLE

CAPE COD AIRPORT: This is a private landing field, not available to

the public.

BOLTON

CLINTON AIRPORT: This airport is closed.

BOXFORD

KELSEY FIELD: This airport is closed and a portion is under

cultivation.

CONCORD

LEE FARMS AIRPORT: The town will not permit this field to be used

as an airport.

DALTON

DALTON AIRPORT: This airport is closed.

FAIRHAVEN

NEW BEDFORD-FAIRHAVEN AIRPORT: This airport is now closed and the

present owners forbid use as an

airport.

GREENFIELD

GREENFIELD AIRPORT: This airport is privately owned and is closed.

STOCKBRIDGE

LENOX AIRPORT: This field is too dangerous to be used even as

an emergency landing field.

NANTUCKET

CURTISS FIELD: This field has not been in operation since the

Curtiss-Wright Flying Service discontinued

summer service to Nantucket in 1932.

NATICK

NATICK-WELLESLEY AIRPORT: This airport is closed.

SOUTHBRIDGE

SOUTHERIDGE AIRPORT: This two-way field was formerly used as an

emergency landing field but the usual take-off and landing directions do not coincide with

prevailing winds.

WAREHAM

WAREHAM AIRPORT: This property is now a golf course.

WESTWOOD

WESTWOOD AIRPORT: This field is no longer in operation.

WINCHENDON

WINCHENDON AIRPORT: Activities have been transferred to the Gardner

Airport.

RECOMMENDATIONS

FOR

FUTURE AIRPORT DEVELOPMENT



RECOMMENDATIONS

FOR

FUTURE AIRPORT DEVELOPMENT

In view of the lack of fields available for the reasonable development of Commercial Aviation, it is recommended that an Airport be established at North Adams, and that the present Airports at Mansfield, Springfield, Northampton and Beverly, be developed to the extent that they will safely accommodate the amount of traffic that may reasonably be expected in the near future.

It will be noted that each of the above recommended airport sites is directly on, or within close proximity to, an established airway. In picking these sites and in locating proposed runways, consideration has been given to the requirements for future expansion and development, and at four of the above locations there is already designed and in use an airport for local flying, but to The Committee these sites appear to be desirable locations for approved and adequate fields as part of an established airway.

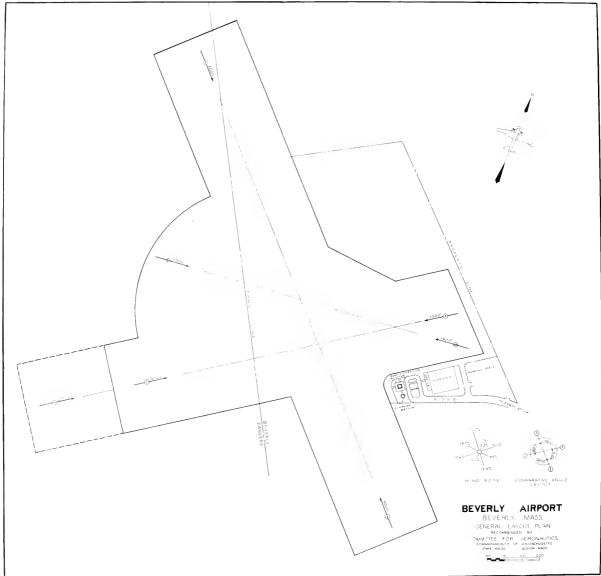
This section of the Report, therefore, has been given over to a brief discussion of the merits of the aforementioned sites and their advantages with reference to future development. On Plates 101 to 107 will be found recommended designs for the expansion of the airports now in use at Beverly, Northampton, Springfield and Mansfield, and also for the proposed airport site at North Adams.

BEVERLY

The Committee for Aeronautics considers an adequate airport in the Salem-Beverly area of paramount importance. The Peverly Airport is directly on the route of the existing primary airway between Boston, Bangor and Bar Harbor, and it offers many reasons to warrant the development suggested on Plate No. 101.

Primary airways are the main avenue of air travel in New England, and should be provided with the various aids to air navigation needed by all types of aircraft. The fact that an airway provides safe flying for multi-motored transport planes equipped with all the latest navigation devices does not necessarily mean that all parts of it provide equal safety for the flyer of a small single-motored plane.

As will be noted from the proposed design on Plate No. 101, the Beverly Airport can easily be expanded by the acquisition of land to the Southeast, Southwest and Northwest of the present landing area, and it is recommended that the Beverly Airport be studied further, with a view toward developing the site to meet the requirements of an approved and adequate airport on the Boston. Fangor and Bar Harbor Airway.



MANSFIELD

The Committee For Aeronautics considers the development of the present airport site in the Town of Mansfield to be of vital importance.

For several years this Airport was used extensively for student flying operations, but since 1935 it has been used only by a small number of itinerant aircraft.

The present site, as described on Plate No. 58, is capable of accommodating only the smaller types of aircraft in use today, and the first impression of the area as a whole is that it is suitable only as an emergency field. However, a thorough investigation of the present airport site and the surrounding area shows great possibilities for the development of this site, as shown on Plate No. 102.

The airport site is located only twenty-five miles from Boston, and is accessible by all means of travel. So far as is known there is no other site within a radius of twenty-five miles that offers the same opportunities for the aforementioned development.

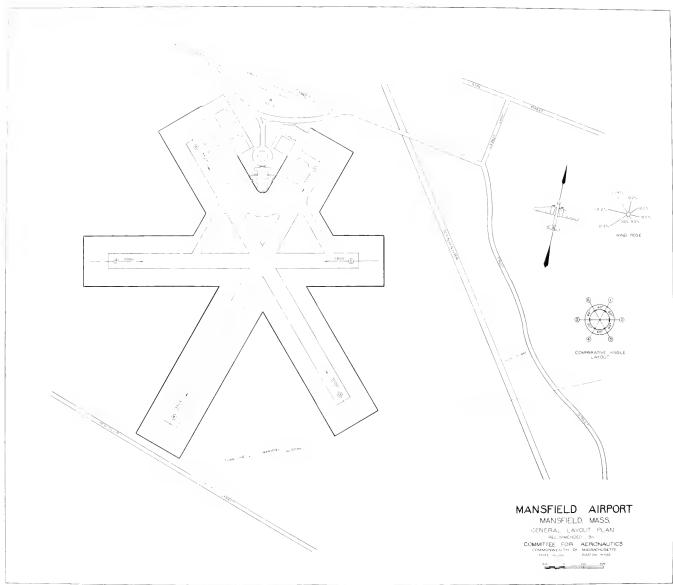
Mansfield is also located within five miles of the route flown by American Airlines on its Boston-Providence-Hartford-Newark Airway, which, together with the fact that it is comparatively free from fog, makes it an ideal location for the development of a field large enough to meet the requirements of an approved and adequate airport on the above mentioned airway.

For some time there has existed the necessity for one or more additional airports in or near Metropolitan Boston to take care of the already overcrowded condition of the East Boston Airport. It is doubtful whether a more suitable location than Mansfield can be found that can be developed to meet the requirements of the air traffic which can reasonably be expected in the very near future.

Another item to be considered is the fact that almost adjacent to the present airport area is the Norton Reservoir, which offers the opportunity for the construction of adequate seaplane facilities.

Last, but not least of the favorable features of this airport site, is the fact that it offers the opportunity for the development of a Military Airport which could accommodate the Army Air Unit now located at the East Boston Airport, thus reducing the congested conditions now prevalent at that Port.

It is, therefore, recommended that further study be made of this Airport Site with a view toward establishing an airport capable of accommodating large Military or Transport Airplanes.



NORTH ADAMS

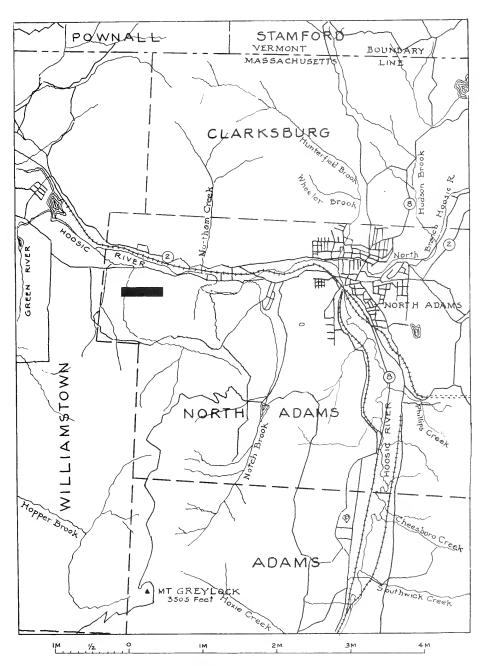
The Committee For Aeronautics considers the development of an approved and adequate landing field in the North Adams area of primary importance.

North Adams, situated as it is in the extremely rough terrain of the Berkshires, offers the only location in the extreme northwestern part of the Commonwealth suitable for the development of an approved and adequate airport.

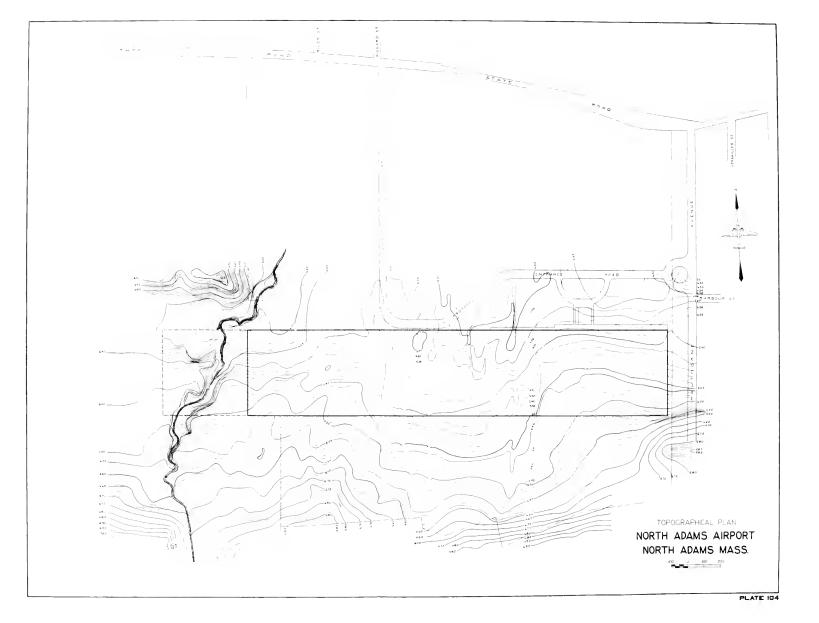
At present there is an established Civil Airway between Boston and Albany, via Springfield. In the past few years the stop at Springfield has been eliminated, and in good weather the route flown is a direct line between Boston and Albany, passing a few miles south of North Adams. This fact, together with the fact that there is the opportunity of developing student flying activities in the North Adams-Williamstown area, warrants the development of an Airport large enough to accommodate such student flying as may be expected, and also to accommodate any transport airplanes that may be obliged to use the field through the medium of forced landings or Feeder Airline Operations.

It is recommended that the area pictured in the suggested design on Plate No. 105 be studied further, with a view toward developing an approved and adequate landing field in the North Adams area.

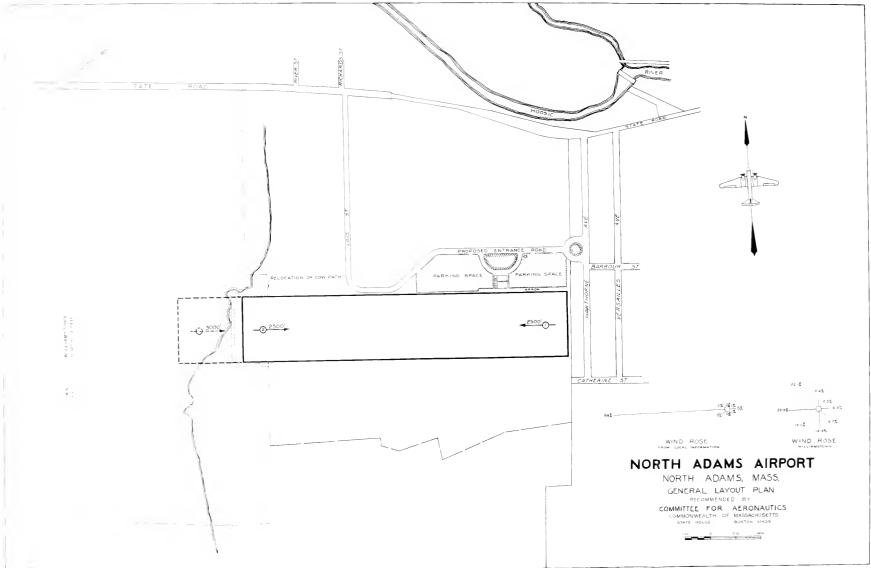
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NORTH ADAMS AIRPORT



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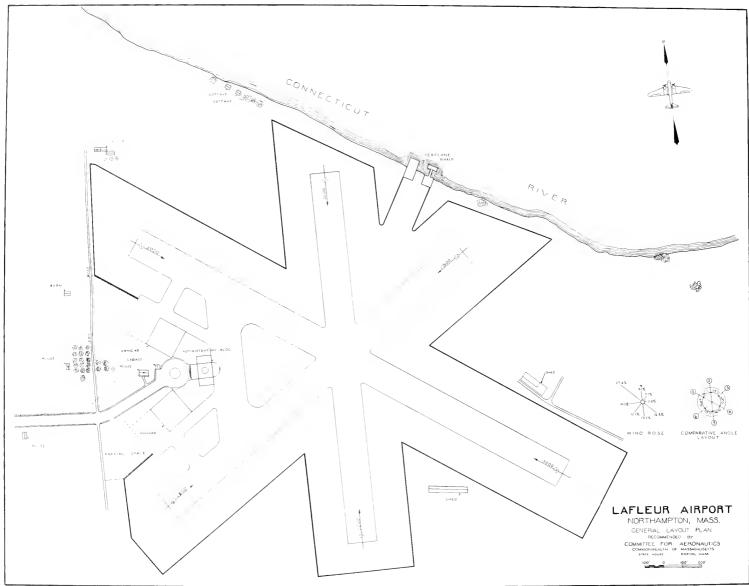
NORTHAMPTON

The Committee for Aeronautics considers the development of the present airport site in the city of Northampton of primary importance, due to the fact of its geographical position with reference to a suggested airway between Hartford and White River Junction and to the fact that it is almost directly on the route flown by American Airlines between Boston and Albany. These facts make it an ideal location for the development of an airport capable of accommodating the type of transport planes now in use on our large airlines.

As will be noted in the design on Plate No. 106, the present runways at the Northampton Airport can be extended by the acquisition of land to the North, South and West of the present landing area. The possibility of the construction of a seaplane base in the Connecticut River adjacent to the airport is also of primary importance, as the ever increasing development of Massachusetts as a surmer playground for vacationists makes obvious the necessity for facilities to accomodate seaplanes in this area.

It is recommended that the Northampton Airport be further studied with a view toward its development to meet the requirements of an approved and adequate landing field on a suggested Hartford to White River Junction Airway.





SPRINGFIELD

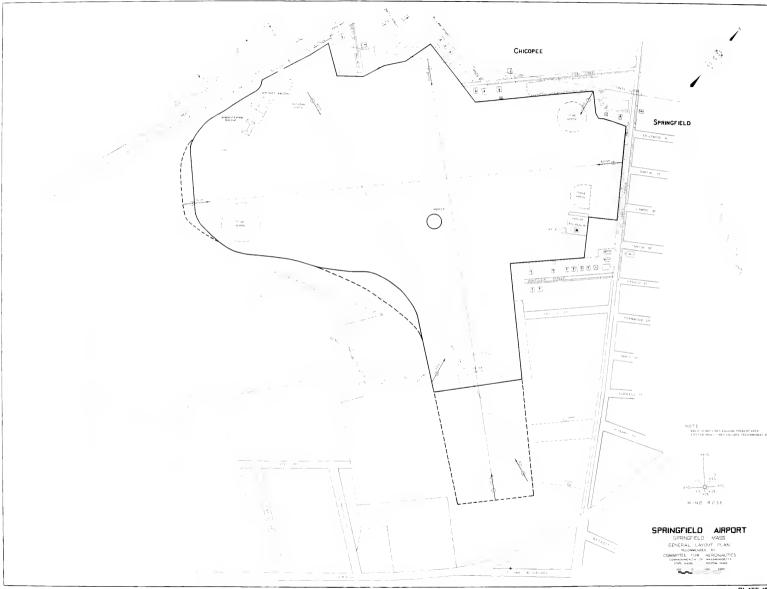
The Committee For Aeronautics considers the development of an approved and adequate airport in Springfield of primary importance. The location of the present airport with reference to a potential primary airway between Hartford and White River Junction, together with the fact that it is midway between Boston and Albany on an existing lighted airway, makes it obvious that the extension of this airport should be considered for the very near future.

Springfield Airport has been an airline terminal in the past, and its close proximity to the city makes possible a speedy transition of mail, passengers and express, between city and airport, not usually found at airports of corresponding size.

As will be noted on Plate No. 107, the acquisition of land to the South, Southeast and West, will make possible the extension of the present landing area to a point where the large transport planes now in use on our present airways can be safely accommodated.

It is, therefore, recommended that further study of the Springfield Airport be made, with a view towards its development to meet the requirements necessary for its classification as a Terminal Airport.







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